VPL-350Q/350QM/351Q/351QM

RM-PJ350

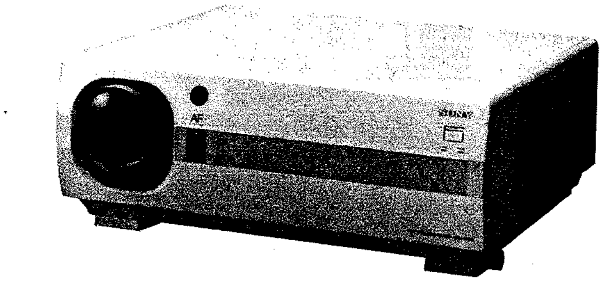
SERVICE MANUAL

REVISED

V03154

VPL-350Q
VPL-351Q
US Model
Canadian Model

VPL-350QM
VPL-351QM
AEP Model



LIP CHASSIS

MODELS OF THE SAME SERIES	
VPL-350Q/350QM	
VPL-351Q/351QM	

SPECIFICATIONS

Optical

Projection system
3 LCD panels, 1 lens, projection with primary light shuttering system

LCD panel 3.2-inch TFT LCD panel, 345,600 pixels

Projection lens
Auto focus 1.8 times power zoom lens
f 92 to 165 mm/F4.6 to 5.8

Projected picture size
29 inches to 200 inches

Light output ANSI lumen[1]: 160 lumen
All white: 300 lumen
Normally white[2]: 400 lumen

[1] Measurement method according to ANSI IT 7.215
[2] Non-operational level

Projection distance

Screen size (inches)	Projection distance:mm (inches)
29	1,400 (55 1/8)
60	1,700 to 3,000 (67 to 118 1/8)
80	2,300 to 4,000 (90 5/8 to 157 1/2)
100	2,800 to 5,000 (110 3/8 to 196 7/8)
120	3,400 to 6,100 (133 7/8 to 240 1/4)
150	4,300 to 7,600 (169 3/8 to 299 3/8)
180	5,200 to 9,200 (204 7/8 to 362 3/8)
200	5,700 to 10,000 (224 5/8 to 390 7/8)

– Continued on next page –

MICROFILM

LCD DATA PROJECTOR

SONY®

VPL-350Q/350QM/351Q/351QM
RM-PJ350

General

Color system
NTSC/PAL/SECAM/NTSC$_{4.43}$, automatically selected

Resolution Horizontal 500 TV lines (video in)
Vertical 450 TV lines (video in)
720 x 480 pixels (RGB in)

Acceptable computer signal

Computer/ Signal source	fH (kHz)	fV (Hz)	Sync	Interlace/ Non-interlace
Mode 1 15K RGB	15.75	59.94	Comp/ S on G	Interlace
15K Y/R-Y/B-Y (only when the PC-1271/1271M is used)			–	
Mode 2 15K RGB	15.625	50.0	Comp/ S on G	Interlace
15K Y/R-Y/B-Y (only when the PC-1271/1271M is used)			–	
Mode 3 VGA-1	31.468	70.09	H-positive V-negative	Non-interlace
Mode 4 VGA-2	31.468	70.09	H-negative V-positive	Non-interlace
Mode 5 VGA-3	31.468	59.4	H-negative V-negative	Non-interlace
Mode 6 VGA-4 (S VGA)	35.156	56.25	–	Non-interlace
Mode 7 Macintosh 13 inch mode	35.00	66.7	Comp/ S on G	Non-interlace

Speaker Max. 2W, 4 x 8 cm monaural

Power requirement
VPL-350Q: AC 120V, 50/60Hz
VPL-350QM: AC 220 to 240V, 50/60Hz
VPL-351Q: AC 120V, 50/60Hz
VPL-351QM: AC 220 to 240V, 50/60Hz

Power consumption
Max. 390W

Dimensions Approx. 562 x 223 x 475 mm (w/h/d)
(22 1/4 x 8 7/8 x 18 3/4 inches)

Mass 22.5kg (49 lb 10 oz)

Input/output

VIDEO IN 1/2 Composite video: BNC connector
S video: Mini DIN 4-pin male connector
Audio: Phono jack

RGB IN Analog RGB D-sub 9-pin (male)
(See "Signal assignment".)

CONTROL S IN/OUT
Loop-through Mini

REMOTE 1 14-pin, from the PC-1271/1271M
(See "Signal assignment".)

Accessories supplied
Remote Commander RM-PJ350 (1)
with 3 R6 (AA) batteries
Remote Commander cable (1)
AC power cord (1)

Accessories (not supplied)

Signal Interface Switcher
PC-1271, PC-1271M

Projection Suspension Support
PSS-350, PSS-10

Projector Lamp
PK-351

Screens VPS-100FH (100" flat type)
VPS-120FH (120" flat type)

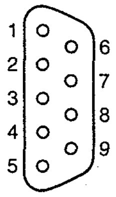
CCQ-BRS cable (14-pin 2/5/10/25/50 m)
SIC-M cable (14-pin 1/5/15/25/50 m)

Projector Input	IFB board	SIC cable	Signal
RGB IN	—	SIC-20/20B	Mode 7
		SIC-22/24	Mode 3/4/5/6
Switcher IN	IFB-11	SIC-10	Mode 1/2
	IFB-20	SIC-20/20B	Mode 7
		SIC-22	Mode 3/4/5/6
	IFB-1000	BNC-BNC cable	NTSC/PAL/ SECAM/NTSC$_{4.43}$
	IFB-1200	SIC-10	15K Component (Y/R-Y/B-Y)

Signal assignment

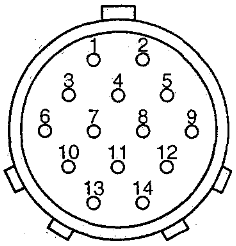
RGB IN connector (D-sub 9-pin, male)

Pin No.	Signal
1	GND
2	N.C.
3	Red
4	G/S on G
5	Blue
6	N.C.
7	N.C.
8	H/C sync
9	V. sync



REMOTE 1 connector (14-pin, male)

Pin No.	Signal
1	GND
2	HD/COMPOSITE SYNC
3	SIRCS
4	N.C.
5	GND (SIRCS)
6	B/C
7	GNC (B/R)
8	GND (G/Y)
9	G/Y
10	RGB/VIDEO
11	R/COMPOSITE VIDEO
12	COMPOSITE VIDEO/YC
13	AUDIO
14	VD


1
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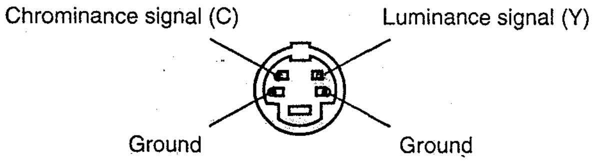
14

S VIDEO connector (4-pin mini DIN)


Chrominance signal (C)
Luminance signal (Y)
Ground
Ground

Design and specifications are subject to change without notice.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

HIGH TEMPERATURE OF THE LAMP

The temperature around the lamp became awfully high while the power on or immediately after power off. Handle with care to not scaled.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE.
LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

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SECTION 1

GENERAL

1-1. FEATURES

High Quality Picture

- **High brightness**
  High power metal halide lamp and high quality optical unit employed in the VPL-350Q/350QM/351Q/351QM achieve high radiation, allowing the projector to present bright images.
- **High resolution**
  The VPL-350Q/350QM/351Q/351QM has a high resolution of 720 x 480 dots (RGB)/horizontal resolution 500 TV lines, vertical resolution 450 TV lines (composite video) to clearly show details of pictures.
- **Precise character display**
  The stripe array, used in the LCD panel of the VPL-350Q/350QM/351Q/351QM, aids the projector in providing clear character.
- **Excellent color reproduction**
  Specific luminous characteristics of the metal halide lamp and the optical system design allow excellent color reproduction.
  The VPL-350Q/350QM/351Q/351QM has been designed to balance the red, green and blue spectrums for optimum color reproduction.
- **Double scan technology**
  The digital frame memory incorporated in the VPL-350Q/350QM/351Q/351QM provides double scan capability, which reduces the visibility of scanning lines and minimizes line-flicker.
  In addition, built-in moving image correction circuit resolves the unnatural image movement.

Flexible Setup

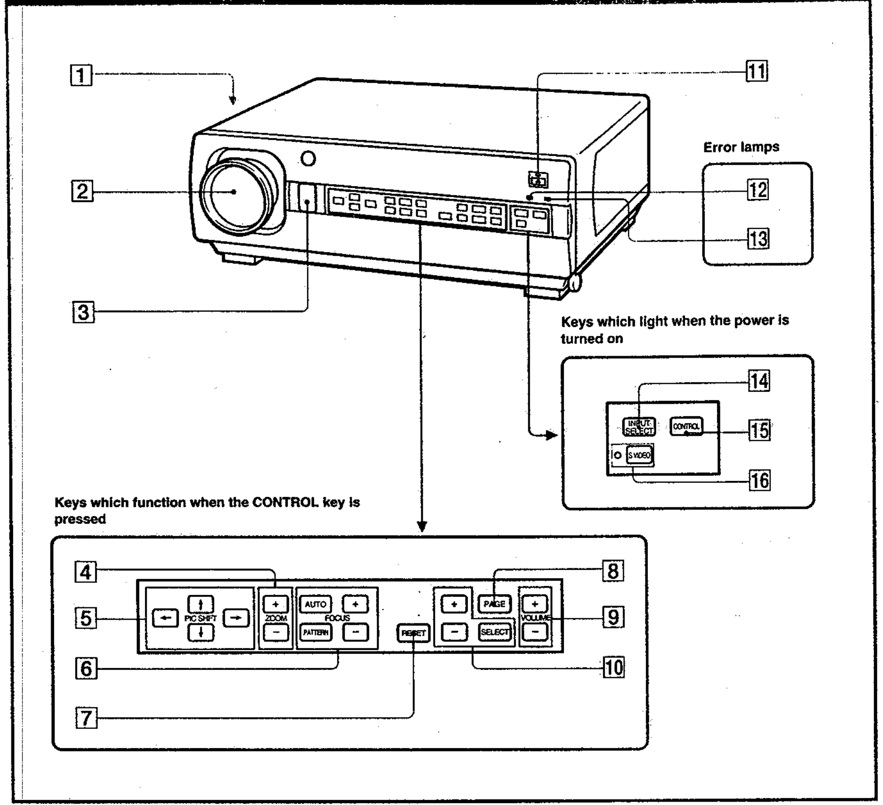
- **Picture shift**
  Thanks to the picture shift function, the VPL-350Q/350QM 351Q/351QM can easily be set up in various installations without keystone distortion.
- **Zoom function (1.8 times zoom lens)**
  The picture size can easily be adjusted without changing the position of the projector.
- **Auto focus**
  When the auto focus button is pressed, the VPL-350Q/350QM/351Q/351QM automatically adjusts the lens focus.

System versatility

- **Input facilities**
  The VPL-350Q/350QM/351Q/351QM is equipped with an S video, RGB (D-sub 9-pin) and video input terminals, allowing a variety of signal sources to be fed to the projector.
- **Optional interface switcher PC-1271/1271M (REMOTE 1 terminal)**
  The VPL-350Q/350QM/351Q/351QM can be connected to a Sony PC-1271/1271M switcher with a CCQ-BRS or SIC-M cable.
  By inserting interface boards into this switcher, the projector can be linked to various devices.

1-2. LOCATION AND FUNCTION OF CONTROLS

Front



1 **Speaker**

2 **Lens**
Remove the lens cover before operating the projector.

3 **Remote control detector**

4 **ZOOM +/– keys**
Press to adjust the size of the picture.
+: To expand the picture size
–: To reduce the picture size

5 **PIC SHIFT (picture shift) keys**
Press to adjust the location of the picture.

6 **FOCUS keys**
AUTO key
Press to adjust the focus automatically.
PATTERN key
When you adjust the focus manually, press to display the pattern.
+/– keys
Press to adjust the focus manually.

7 **RESET key**
Press to restore the adjusted levels to the standard levels.
This key functions while the PAGE screen is displayed or during adjustment of the level (while the level is displayed.)

8 **PAGE key**
Press to adjust the picture or check the adjustment levels.
According to the input signal, the display switches as follows every time this key is pressed.

When the signal from the VIDEO IN jack is selected
PAGE 1 ⟶ Original screen

When the signal from the RGB IN connector is selected
PAGE 1 ⟶ PAGE 2 ⟶ Original screen

When no signal is selected
PAGE ⟶ Blue or black screen

9 **VOLUME +/– keys**
Press to adjust volume.
+: To increase volume
–: To decrease volume

10 **SELECT/+/– keys**
Press the SELECT key to select the item and + or – key to adjust the level.

11 **POWER switch and indicator**
Press to turn the projector on and off.

12 **LAMP indicator**
Lights when the lamp does not light for some trouble or lamp life and flashes when the lamp cover or the filter cover at the bottom is detached.

13 **TEMP (temperature) indicator**
Lights when the internal temperature is too high and flashes when the fan inside the projector stops during operation.

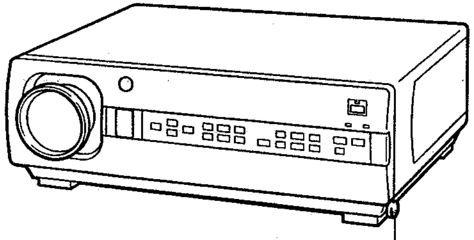
14 **INPUT SELECT key**
Press to select the input signal.
VIDEO 1 ⟶ VIDEO 2 ⟶ RGB ⟶ SW'ER

The last number when the switcher was used is displayed.
Press the S VIDEO key to select VIDEO or S VIDEO on each VIDEO IN 1 or 2 connector.

15 **CONTROL key**
Press to start operation. When this key is pressed, the lights of the operation keys light and you can start operation. To turn off the lights of the operation keys, press this key again. When any key is not pressed for 30 seconds after the operation keys light, the lights turn off.

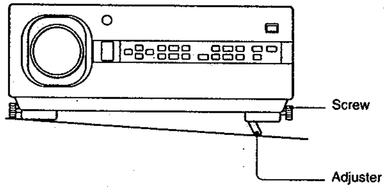
16 **S VIDEO key and indicator**
Press to select the picture from the VIDEO or S VIDEO on each VIDEO IN 1 or 2 connector.
When S VIDEO is selected, the indicator lights.

Bottom



How to use the adjusters

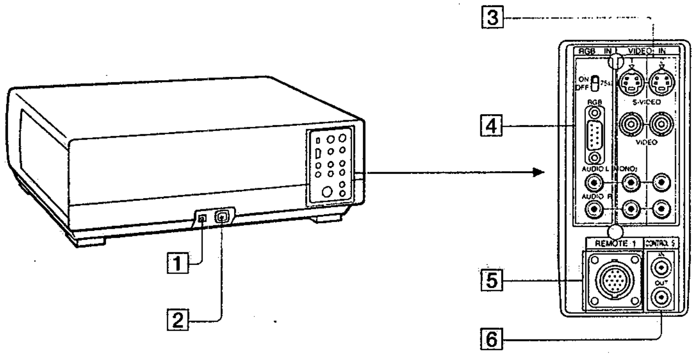
When the projector is installed in an inclined position, use the adjusters.



1 **While lifting the projector, turn the screw counterclockwise (UP).**
Adjuster comes out.

2 **Adjust the height.**
If it is too high, turn the screw clockwise (DOWN) to lower the projector.
If it is too low, lift the projector again and turn the screw counterclockwise to raise the projector.

Rear



1 **MAIN POWER switch (⏏ ON/⊓ OFF)**
Press to turn the main power on and off.

2 **AC IN socket**
Connect the supplied AC power cord.

3 **VIDEO IN connectors**
S VIDEO 1/2 connectors (4-pin mini DIN)
Connect to the S video output connector of the VCR.
VIDEO 1/2 jacks (BNC)
Connect to the video output jack of the VCR.
AUDIO L (MONO)/AUDIO R jacks (phono)
Connect to the audio output jacks of the VCR connected to the VIDEO 1 or 2 jack.
For stereo equipment, use AUDIO L and AUDIO R jacks. For monaural equipment, use the AUDIO L (MONO) jack only.

Note
The projector is monaural, so sound is not reproduced in stereo.

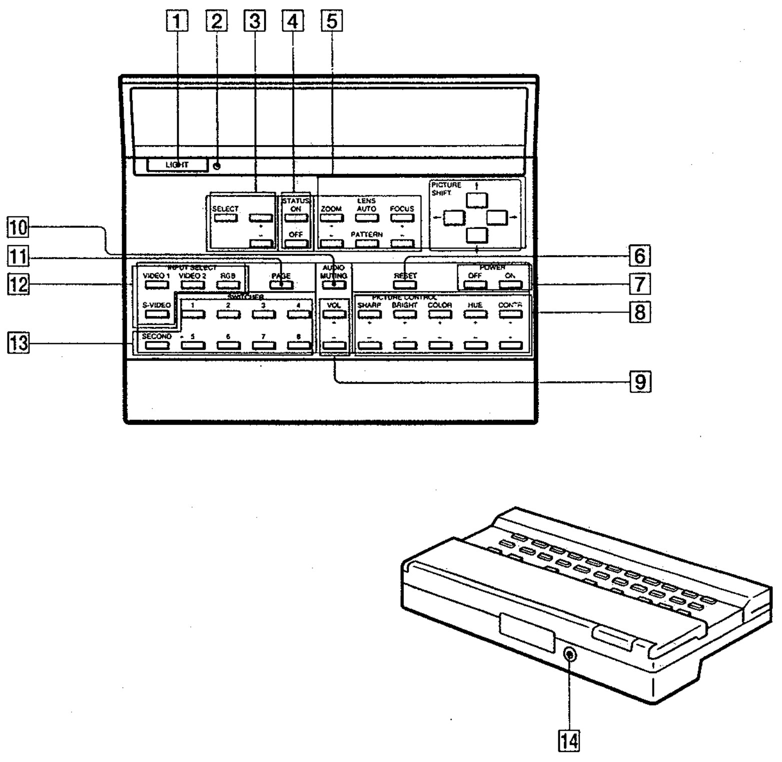
4 **RGB IN connectors**
75 Ω ON/OFF switch
Used to turn on or off the 75 Ω termination switch of the RGB signal. Normally set to **ON**. Set to **OFF** when the projector is connected to the computer and the monitor with the SIC cables.
RGB connector (D-sub 9-pin)
Connect to the analog RGB output of the computer with the SIC-20/22 cable.
AUDIO L (MONO)/AUDIO R jacks (phono)
Connect to the audio output jacks of the equipment connected to the RGB connector.
For stereo equipment, use AUDIO L and AUDIO R jacks. For monaural equipment, use the AUDIO L (MONO) jack only.

Note
The projector is monaural, so sound is not reproduced in stereo.

5 **REMOTE 1 connector (14-pin)**
Connect to the REMOTE 1 connector of the PC-1271/1271M switcher (not supplied).

6 **CONTROL S IN/OUT connectors**
Connect to the CONTROL S connectors of other Sony equipment.
CONTROL S IN: Connect to the CONTROL S OUT connector of the supplied Remote Commander to use as a wired Commander.
CONTROL S OUT: The signal from CONTROL S IN is output.
Connect to the CONTROL S IN connector of other projector when two or more projectors are used.

Remote Commander RM-PJ350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10
11
12
13
14
LIGHT
SELECT
STATUS
ON
OFF
LENS
ZOOM
AUTO
FOCUS
PATTERN
PICTURE SHIFT
INPUT SELECT
VIDEO 1
VIDEO 2
RGB
PAGE
AUDIO MUTING
RESET
POWER
OFF
ON
S-VIDEO
SWITCHER
VOL
PICTURE CONTROL
SHARP
BRIGHT
COLOR
HUE
CONTR
SECOND

The keys on the Remote Commander with the same name as those on the projector have the same function.

1 **LIGHT button**
Press to light key indicators.
If the keys are not operated within about 30 seconds, the light automatically turns off.

2 **Transmission indicator**
The light goes on each time a key is pressed. When the indicator does not light, replace the batteries.

3 **SELECT/+/– keys**

4 **STATUS ON/OFF keys**
Press **OFF** to eliminate the on-screen display.
Press **ON** to display the on-screen display.

Note
PAGE, INITIAL SETTING, caution and message are displayed even in OFF mode.

5 **Optical control keys**
ZOOM +/– keys
AUTO key
PATTERN key
FOCUS +/– keys
PICTURE SHIFT keys

6 **RESET key**

7 **POWER ON/OFF keys**

8 **PICTURE CONTROL keys**
Press to adjust picture condition: sharpness, brightness, color, hue and contrast.

9 **VOL (volume) +/– keys**

10 **AUDIO MUTING key**
Press to cut off the sound. To release the muting function, press this key again or the VOL + key.

11 **PAGE key**

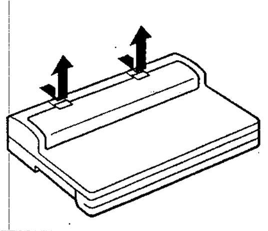
12 **INPUT SELECT keys**
Press to select the input signal.
VIDEO 1
Press to select the signal input from the VIDEO IN 1 (VIDEO or S VIDEO) connector.
VIDEO 2
Press to select the signal input from the VIDEO IN 2 (VIDEO or S VIDEO) connector.
S VIDEO
Press to select VIDEO or S VIDEO on each VIDEO IN 1 or 2 connector.
RGB
Press to select the signal input from the RGB connector.

13 **SWITCHER select/SECOND keys**
When the PC-1271/1271M switcher is connected, select the input from the switcher. The SECOND key is used when two switchers are connected. To select the input from the second switcher (when the switcher's SINGLE/SECOND switch is set to SECOND), press the number key after pressing the SECOND key.

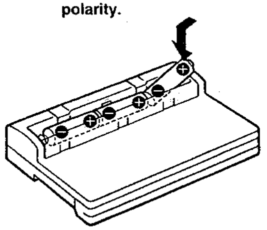
14 **CONTROL S OUT connector**
Connect the supplied remote control cable to this connector and to the CONTROL S IN connector of the projector for wired Commander application.

Battery installation

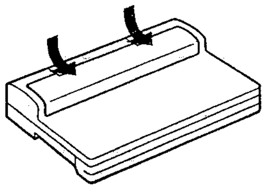
1 **Push to open the lid.**



2 **Install three R6 (AA) batteries with the correct polarity.**

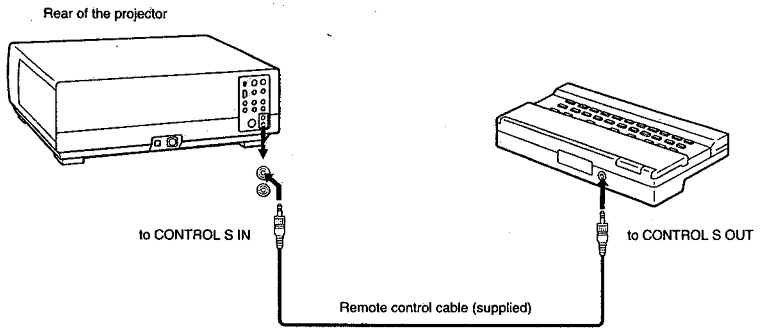


3 **Replace the lid.**



- If the projector does not operate properly, the batteries might be worn out. Replace all three of them with new batteries.
- The life of the batteries depends on frequency of usage and how often you use the LIGHT button. If they wear out quickly, replace them with new alkaline batteries.
- To avoid damage from possible battery leakage, remove the batteries when the Commander will not be used for a long time.
- Be sure that there are no obstructions between the Commander and the unit.
- Operable range is limited. The shorter the distance between the Commander and the projector, the wider the angle within which the Commander can control the projector.

To connect the Remote Commander to the projector



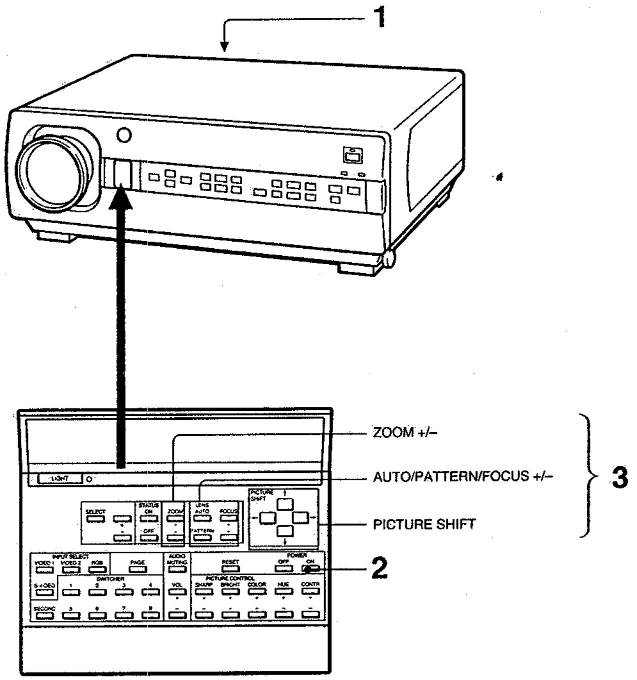
Note
When the above connection is made, the remote control detector of the projector does not function. For wireless operation, be sure to disconnect both plugs from the projector and the Commander.

1-3. PROJECTING

You can also use the keys on the control panel with the same name as the Remote Commander to operate the projector.

Preparations

Before connecting other equipment, adjust the focus, size and shift of the picture.
The focus can be adjusted automatically or manually.



1 **Depress the MAIN POWER switch (at the rear) of the projector (⊏ ON).**
The POWER indicator lights in red.

2 **Turn on the power by pressing the POWER ON key.**
The POWER indicator lights in green.

3 Project the blue back display and adjust the focus, size and shift of the picture so that the blue back display fits the screen:

Automatic focus adjustment
Press the AUTO key.
During the AUTO FOCUS display appears, the auto focus functions. After adjusting the focus, the display disappears automatically.

AUTO FOCUS

Manual focus adjustment
Press the FOCUS + or – key.
Press the PATTERN key to adjust the focus using the focus pattern.
To clear the pattern display, press the PATTERN key again.

FOCUS

Picture size adjustment
If the size of the picture does not fit the screen, adjust ZOOM.
Press the ZOOM + or – key.

ZOOM

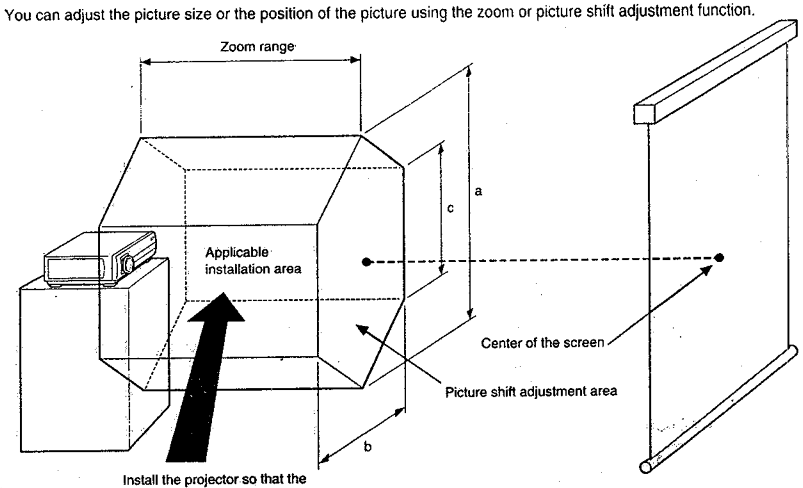
Picture shift adjustment
If the picture needs to be shifted to fit the screen, adjust PICTURE SHIFT.
Adjust by pressing the arrow keys so that the picture fits the screen.
The picture shifts according to the direction of the arrow.

PICTURE SHIFT

Notes
- Do not touch the lens while you adjust focus, picture size or picture shift.
- Check that there are no obstructions between the lens and the screen during the auto focus adjustment.
- The operable distance of the auto focus is up to 7m (23 feet).

Applicable installation area

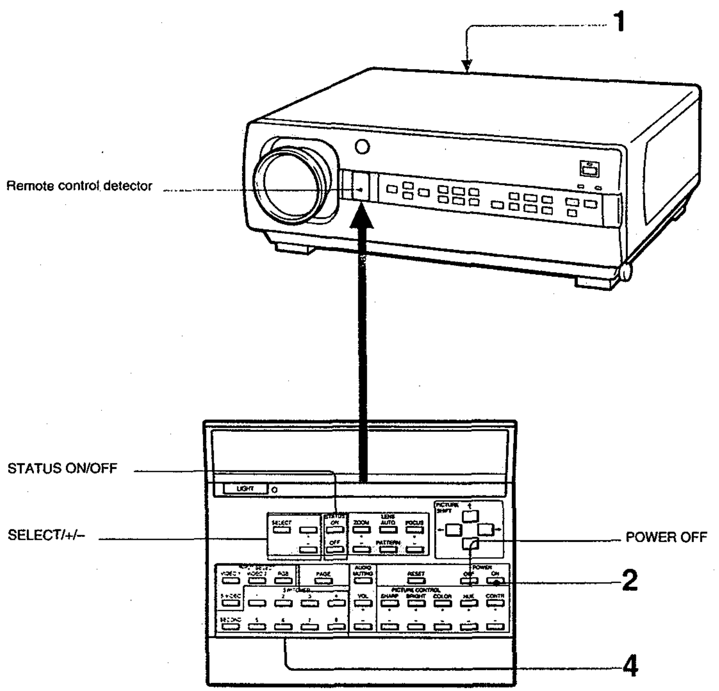
You can adjust the picture size or the position of the picture using the zoom or picture shift adjustment function.



Install the projector so that the front of the lens is inside the area. See the table below for the area for each screen size.

Screen size (inches)	Unit: mm (inches)		
	a	b	c
29	366 (14 1/2)	183 (7 1/4)	183 (7 1/4)
60	744 (29 3/8)	372 (14 3/4)	372 (14 3/4)
80	992 (39 1/8)	496 (19 5/8)	496 (19 5/8)
100	1,238 (48 3/4)	619 (24 3/8)	619 (24 3/8)
120	1,486 (58 5/8)	743 (29 3/8)	743 (29 3/8)
150	1,860 (73 1/4)	930 (36 5/8)	930 (36 5/8)
180	2,232 (88)	1,116 (44)	1,116 (44)
200	2,478 (97 5/8)	1,239 (48 7/8)	1,239 (48 7/8)

Projecting the picture



1 **Depress the MAIN POWER switch (at the rear) of the projector (⊏ ON).**
The POWER indicator lights in red.

2 **Turn on the power by pressing the POWER ON key.**
The POWER indicator lights in green.

3 **Turn on the connected equipment.**

4 **Select the input signal to be projected by pressing the INPUT SELECT key or the SWITCHER number key on the Remote Commander.**

VIDEO 1: To select the signal input from the VIDEO IN 1 (VIDEO or S VIDEO) connector.

VIDEO 2: To select the signal input from the VIDEO IN 2 (VIDEO or S VIDEO) connector.

S VIDEO: To select VIDEO or S VIDEO on each VIDEO IN 1 or 2 connector.

RGB: To select the signal input from the RGB connector.

SWITCHER: (When the PC-1271/1271M switcher is connected)

On the Remote Commander
Press the desired SWITCHER number key.

On the control panel of the projector
The number of the switcher that you used last is displayed.

To turn off the power

1 Press the POWER OFF key.
The projector cannot be turned on again for about 1 minute after the POWER OFF key is pressed.

2 After the POWER indicator lights in red, press the MAIN POWER switch of the projector.

Note
The fan functions to reduce the internal heat for about 10 minutes after the POWER OFF key is pressed, and the indicator remains in green.

To set the display-off mode

Press the STATUS OFF key.
However, PAGE, INITIAL SETTING, caution and message are displayed even in OFF mode.
To set the display-on mode. press the STATUS ON key.

To adjust the volume

Press the VOLUME (VOL) +/– key.
+: To increase volume
–: To decrease volume

To mute the sound

Press the AUDIO MUTING key. To release the muting function, press the AUDIO MUTING key again or VOLUME (VOL) + key.

Notes
- During operation, do not look through the lens.
- When the power is turned on, noise is heard, but this is not a failure of the projector.
- When moisture has condensed inside the projector, do not use it for about 2 hours.

Adjusting the Picture

The memory function incorporated in the VPL-350Q/350QM /351Q/351QM facilitates projector setup and operation.
The levels can be changed independently for the different input connectors (VIDEO IN 1/2, RGB, SWITCHER 1-1 to 1-8/2-1 to 2-8).

Using the PICTURE CONTROL keys on the Remote Commander

```
CONTR : 68
```

You can adjust the picture condition, contrast, hue, color, brightness and sharpness directly. The adjustment levels are digitally displayed on the screen having a range of MIN, 1, 2, ..., 98, 99, MAX.

CONTR +/– keys	**+:** To increase picture contrast **–:** To decrease picture contrast
HUE +/– keys	**+:** To make skin tones greenish **–:** To make skin tones purplish
COLOR +/– keys	**+:** To increase color intensity **–:** To decrease color intensity
BRIGHT +/– keys	**+:** To make the picture brighter **–:** To make the picture darker
SHARP +/– keys	**+:** To make the picture sharper **–:** To make the picture softer

Using the SELECT and +/– keys

```
D.PIC : ON
```

You can display the picture condition in the lower left corner of the display by pressing the SELECT key. The following items are displayed cyclically by each press and adjusted with the +/– key.

CONTR **HUE** **COLOR** **BRIGHT** **SHARP**	**See "Using the PICTURE CONTROL keys on the Remote Commander".**
D. PIC	**ON:** To enhanse the contrast, providing a dynamic image. **OFF:** To display a dark portion faithfully according to the video source.
COLOR TEMP	Normally set to **LOW**. When you want to make white color bluish, set to **HIGH**. **LOW:** Good for movies, etc. **HIGH:** Good for TV news, etc.

Notes
- The COLOR, SHARP, HUE and D. PIC controls do not function when the input signal is RGB.
- The HUE control does not function with a PAL or SECAM color source.

To Display the Current Control Settings

Press the PAGE key to display the following on-screen displays. The displays switch as follows every time the PAGE key is pressed.

When the signal from the VIDEO IN jack is selected
PAGE 1 ⟶ Original screen

When the signal from the RGB IN connector is selected
PAGE 1 ⟶ PAGE 2 ⟶ Original screen

When no signal is selected
PAGE ⟶ Blue or black screen

PAGE 1

```
VIDEO 1
PAGE 1
USER CONTROL
  CONTR :  40
  HUE :    25
  COLOR :  32
  BRIGHT : 60
  SHARP :  42
  D.PIC  : OFF
  COLOR TEMP : LOW
ADJ :[SELECT]&[+][-]   EXIT :[PAGE]
```

The picture condition; contrast, hue, color, brightness, sharpness, dynamic picture, and color temperature are displayed. The level can be changed independently for the different input connectors (VIDEO IN 1/2, RGB, SWITCHER 1-1 to 1-8/2-1 to 2-8). (You can check the input connector from the message displayed in the upper left corner of the screen). The control that does not function with the current input signal does not appear. To change the levels, select the item with the SELECT key (the selected item is colored in yellow) and adjust with the + or – key.
To adjust the levels, see "Using the PICTURE CONTROL keys on the Remote Commander" or "Using the SELECT and +/– keys" on page 18.

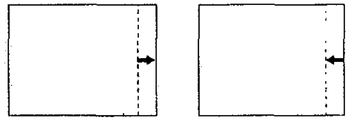
PAGE 2

```
RGB

PAGE 2
RGB CONTROL
RGB MODE : 3
  H SIZE :    125
  H SHIFT :  200
  V SHIFT :  98
  CLAMP :  AUTO
SET :[SELECT]&[+][−]    EXIT :[PAGE]
```

The RGB memory is intended to make the projector operation simple and easy by storing projection condition data corresponding to particular input signals. By recognizing the input signal type being used, appropriate data, such as the horizontal size/shift, vertical shift and clamp status are retrieved from the memory and projection conditions are promptly adjusted.
To change the settings, select the item with the SELECT key (the selected item is colored in yellow) and adjust with the + or − key.

H SIZE: To adjust the horizontal size of the picture



H SHIFT: To shift the picture horizontally so that the picture fits the screen.

V SHIFT: To shift the picture vertically so that the picture fits the screen.

For details of the clamp setting, see "If the Luminance of the Picture Is Incorrect–Clamp Setting" on page 23.

Note
The H SIZE and CLAMP do not function when the input signal is 15K RGB (fH=15 kHz, RGB signal) or component (Y/R-Y/B-Y).

No signal

```
VIDEO 1
NO INPUT




PAGE
  BLUE BACK :  ON
SET :[+]    EXIT :[PAGE]
```

To Restore the Factory Preset Levels

While the adjustment level is displayed, press the RESET key.
The factory preset levels are displayed on the screen.
When the PAGE display is displayed, the RESET key is also used.

```
CONTR :  80
```

When the picture control key is pressed
Only the level of the displayed item is restored to the factory preset level.

```
VIDEO 1
PAGE 1
USER CONTROL
  CONTR :   80
  HUE :       50
  COLOR :   50
  BRIGHT :  50
  SHARP :   50
  D.PIC    :  ON
  COLOR TEMP :  LOW
ADJ :[SELECT]&[+][−]    EXIT :[PAGE]
```

When the PAGE 1 display is displayed
The levels of all the displayed items are restored to the factory preset levels.

```
RGB

PAGE 2
RGB CONTROL
RGB MODE :  3
  H SIZE :    126
  H SHIFT :  198
  V SHIFT :  MIN
  CLAMP :  AUTO
SET :[SELECT]&[+][−]    EXIT :[PAGE]
```

When the PAGE 2 display is displayed
The factory preset levels are due to the input signal.

To Display the Initial Setting

```
INITIAL SETTING
  BLUE BACK :    ON
  H POLARITY :  NORMAL
  STATUS :        ON
  OPTICAL RESET
  LANGUAGE :  ENGLISH
ADJ :SELECT&+- EXIT :PAGE
```

While keeping the CONTROL key on the projector pressed, press the AUTO key to display the INITIAL SETTING display. The selected item is colored in yellow.

BLUE BACK: ON/OFF Set to **ON** to display the blue display and to **OFF** to display the black display when no signal is input.

H POLARITY: NORMAL/REVERSE Normally set to **NORMAL** and set to **REVERSE** to turn the left and right side.

STATUS: ON/OFF The PAGE display appears even when on-screen display does not appear.

OPTICAL RESET: When the + key is pressed, the lens position and zoom and focus adjustment are set to the factory preset levels.

LANGUAGE: ENGLISH/DEUTSCH/FRANCAIS/ITALIANO/ESPANOL See "To change the on-screen display language" below.

To change the on-screen display language

```
INITIAL SETTING
  BLUE BACK :  ON
  H POLARITY :  NORMAL
  STATUS :        ON
  OPTICAL RESET
  LANGUAGE :  ENGLISH
ADJ :SELECT&+- EXIT :PAGE
```

If you prefer German, French, Italian or Spanish, you may change the on-screen display language. Display the initial setting, referring to "To Display the Initial Setting" above. Select LANGUAGE with the SELECT key and choose the desired language with the +/– key. Every time you press the + key, the language changes as follows:

ENGLISH→DEUTSCH→FRANCAIS→ITALIANO→ESPANOL

Pressing the – key changes the language in reverse.

Then press the SELECT key.
The on-screen display in selected language appears.

If the Luminance of the Picture Is Incorrect—Clamp Setting

Clamp setting functions when the input signal is RGB. Clamp is used as a standard for setting the black level of the picture correctly. The standard position of the clamp depends on the kind of the sync signal.
Normally, the CPU judges the signal and sets the clamp position automatically.
However, the CPU may misjudge the signal because of noise.
If the luminance of the picture seems to be incorrect (too dark, the black color is too light, or the luminance is unstable), the clamp position may need to be changed. In such case, change the clamp position following the procedure below.

```
RGB

PAGE 2
RGB CONTROL
RGB MODE : 3
  H SIZE :    126
  H SHIFT :  200
  V SHIFT :  98
  CLAMP :  AUTO
SET :SELECT&+-   EXIT :PAGE
```

1 **Press the PAGE key twice.**

2 **Select the clamp position by pressing the SELECT key and adjust the clamp.**

AUTO: Automatic setting mode. Normally, set to this position.
S on G: If the black color is too light or seems to be green, set to this position.
H/C: If the picture is too dark or the luminance is unstable, set to this position.

3 **Press the PAGE key to exit.**

If the luminance is still incorrect after changing the clamp setting
There may be a problem with the input signal or connection.
Check the input signal.

Messages on the Screen

When an error occurs or some caution is needed, the following messages will be displayed even when the STATUS item is set to OFF.

Messages	Meaning
Not applicable!	The control does not function with the current condition.
NO INPUT	No signal is input.
MUTING	Muting
OPERATING TEMPERATURE TOO HIGH! This set will be shut down after 5 minutes.	Operating temperature is too high. This set will be shut down after the displayed minutes.
fH is out of range! This input signal cannot be projected as the horizontal freq. is out of range!	The horizontal frequency is out of range. This input signal cannot be projected as the horizontal frequency is out of the acceptable level of the projector.
Time to replace the lamp is nearing. It is recommended that the lamp be replaced before long.	The lamp is exhausted. It is recommended that you replace the lamp with a new one soon.

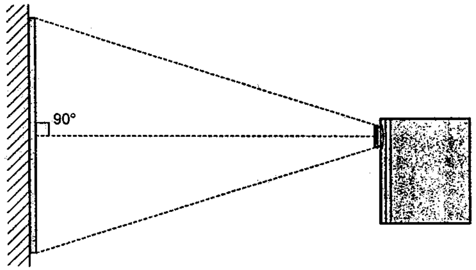
1-4. INSTALLATION DIAGRAMS

Using the Front Projection Screen

Installation 1 Floor, Flat screen (Standard)

Horizontal view

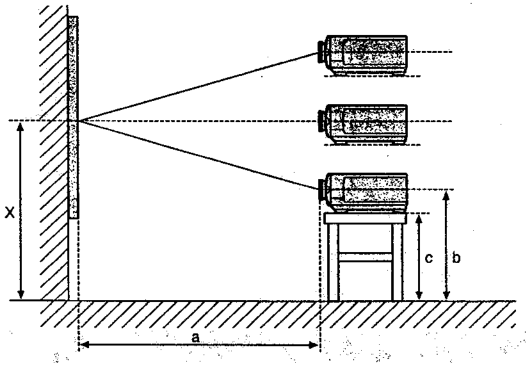
Align the center of the projector lens with the center of the screen as follows.



Vertical view

Install the projector horizontally.

a: distance from the lens of the projector to the screen
b: distance from the floor to the center of the lens
c: distance from the floor to the foot of the projector
x: free

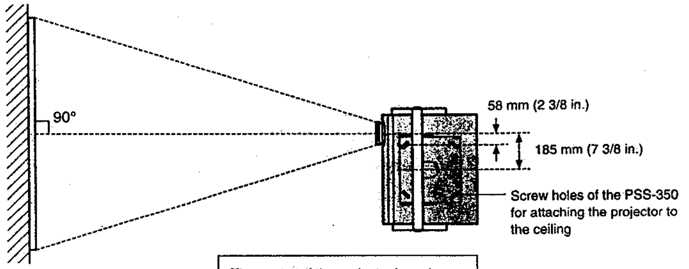


Screen size (inches)	Projection distance: mm (inches)					
	a		b		c	
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
29	—	1,400 (55 1/8)	x − 183 (7 1/4)	x + 183 (7 1/4)	x − 336 (13 1/4)	x + 70 (2 7/8)
60	1,700 (67)	3,000 (118 1/8)	x − 372 (14 3/4)	x + 372 (14 3/4)	x − 525 (20 3/4)	x + 259 (10 1/4)
80	2,300 (90 5/8)	4,000 (157 1/2)	x − 496 (19 5/8)	x + 496 (19 5/8)	x − 649 (25 5/8)	x + 383 (15 1/8)
100	2,800 (110 3/8)	5,000 (196 7/8)	x − 619 (24 3/8)	x + 619 (24 3/8)	x − 772 (30 1/2)	x + 506 (20)
120	3,400 (133 7/8)	6,100 (240 1/4)	x − 743 (29 3/8)	x + 743 (29 3/8)	x − 896 (35 3/8)	x + 630 (24 7/8)
150	4,300 (169 3/8)	7,600 (299 3/8)	x − 930 (36 5/8)	x + 930 (36 5/8)	x − 1,083 (42 3/4)	x + 817 (32 1/4)
180	5,200 (204 7/8)	9,200 (362 3/8)	x − 1,116 (44)	x + 1,116 (44)	x − 1,269 (50)	x + 1,003 (39 1/2)
200	5,700 (224 5/8)	10,000 (390 7/8)	x − 1,239 (48 7/8)	x + 1,239 (48 7/8)	x − 1,392 (54 7/8)	x + 1,126 (44 3/8)

Installation 2 Ceiling, Flat screen (When installing directly on the ceiling using the Sony PSS-350 Suspension Support)

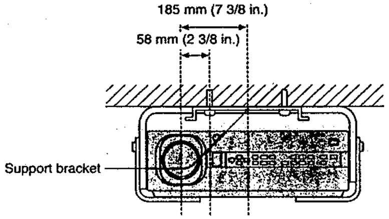
Installation and preliminary adjustments should be carried out by qualified Sony personnel.

Horizontal view
Align the center of the projector lens with the center of the screen as follows.

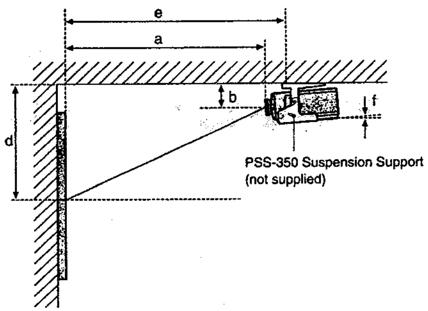

90°
58 mm (2 3/8 in.)
185 mm (7 3/8 in.)
Screw holes of the PSS-350 for attaching the projector to the ceiling

The center of the projector lens does not align with the center of the PSS-350 Suspension Support.

Front view


185 mm (7 3/8 in.)
58 mm (2 3/8 in.)
Support bracket

Vertical view


e
a
b
f
d
PSS-350 Suspension Support (not supplied)

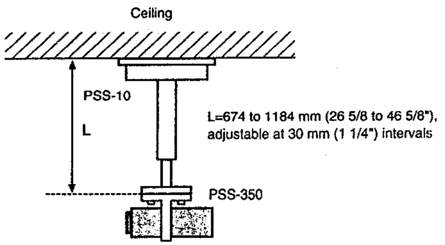
a: distance from the center of the lens to the screen
b: distance from the ceiling to the center of the lens
e: distance from the front screw of the suspension support to the screen
d: distance from the ceiling to the center of the screen
f: tilt angle

Note
Adjust the picture shift to the lowest position with the PICTURE SHIFT keys.
(See pages 14 and 15.)

Screen size (inches)	**Projection distance: mm** (inches)				
	a	b	e	d	f(°)
80	4,000 (157 1/2)	166 (6 5/8)	4,127 (162 1/2)	805 (31 3/4)	1.9
100	5,000 (196 7/8)	166 (6 5/8)	5,127 (201 7/8)	957 (37 3/4)	1.8
120	6,100 (240 1/4)	166 (6 5/8)	6,227 (245 1/4)	1,108 (43 5/8)	1.7
150	7,600 (299 3/8)	166 (6 5/8)	7,727 (304 1/4)	1,335 (52 5/8)	1.7
180	9,200 (362 3/8)	165 (6 1/2)	9,326 (367 1/4)	1,562 (61 5/8)	1.6
200	9,990 (393 3/8)	165 (6 1/2)	10,116 (398 3/8)	1,713 (67 1/2)	1.6

When the projector is installed directly on the ceiling with the PSS-350 Suspension Support, distances (a) and (b) in the above table are fixed. Install the projector according to the table. If you want to change distances (a) and (b), use the Sony PSS-10 Projector Suspension Support (not supplied) in combination with the PSS-350 as follows.

To adjust distance between the ceiling and the projector, use the PSS-10 Projector Suspension Support (not supplied) in combination with the PSS-350. In this case, install the projector level to the ceiling, referring to the Installation 1 on page 24.
Please refer to the instruction manual furnished with the equipment to be used.

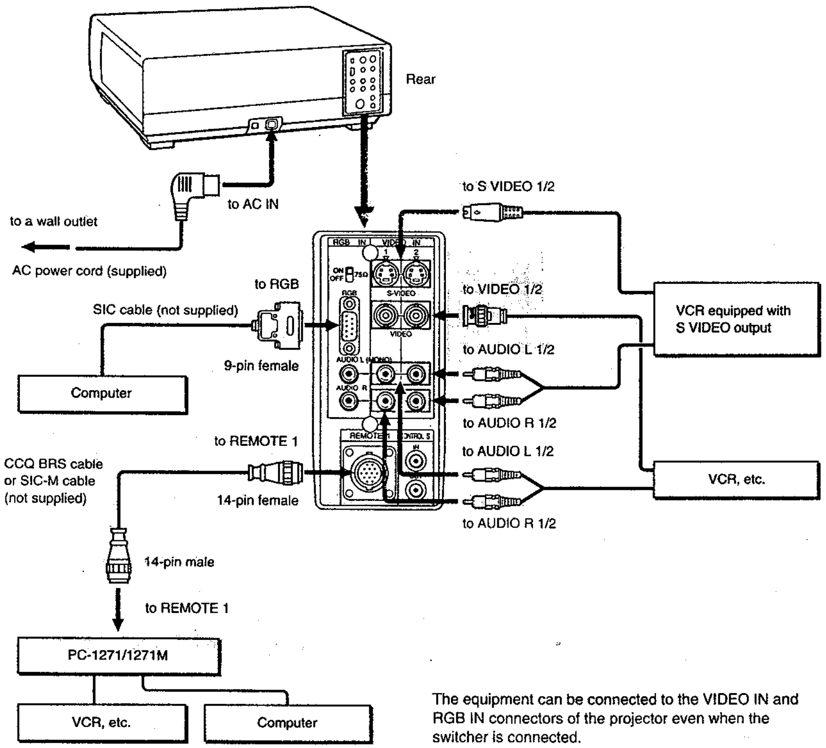

Ceiling
PSS-10
L
L=674 to 1184 mm (26 5/8 to 46 5/8"), adjustable at 30 mm (1 1/4") intervals
PSS-350

1-5. SYSTEM CONNECTIONS

Notes on connection

- First make sure that the power of each piece of equipment is turned off.
- Use connecting cables suitable for the equipment to be connected.
- The cable connectors should be fully inserted into the jacks.
  A loose connection may cause hum and noise.
- To disconnect the cable, pull it out by grasping the plug. Never pull the cable itself.
- For connection to the REMOTE 1 connector, the connecting cable may be extended to maximum 50m.
  If the connecting cable is longer than that, picture quality may be impaired somewhat. To extend the connecting cable longer than 50m, please consult the qualified Sony personnel.
- Use the optional PC-1271/1271M switcher for connecting various video equipment. The input is selected by pressing the SWITCHER number key on the Remote Commander or the INPUT SELECT key on the control panel.
- For more information about connection, refer to the instruction manual of the equipment to be connected.

Connections

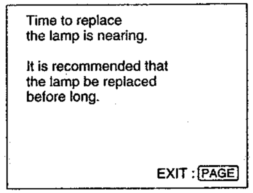

Rear
to a wall outlet
to AC IN
AC power cord (supplied)
to RGB
SIC cable (not supplied)
9-pin female
Computer
to REMOTE 1
CCQ BRS cable
or SIC-M cable
(not supplied)
14-pin female
14-pin male
to REMOTE 1
PC-1271/1271M
VCR, etc.
Computer
to S VIDEO 1/2
to VIDEO 1/2
to AUDIO L 1/2
to AUDIO R 1/2
to AUDIO L 1/2
to AUDIO R 1/2
VCR equipped with
S VIDEO output
VCR, etc.
RGB IN
VIDEO IN
S-VIDEO
VIDEO
AUDIO L (MONO)
AUDIO R
REMOTE 1
CNTROL S

The equipment can be connected to the VIDEO IN and RGB IN connectors of the projector even when the switcher is connected.

1-6. REPLACING THE LAMP

When the lamp for the light source becomes weak, the message is diplayed on the screen every time the projector is turned on. We recommend you to replace the lamp once this message appears. Use the PK-351 lamp (not supplied).

Message to replace the lamp


Time to replace
the lamp is nearing.

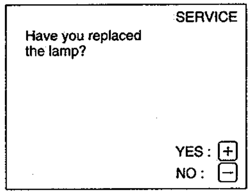
It is recommended that
the lamp be replaced
before long.

EXIT : PAGE

The message is displayed for a minute every time the projector is turned on.
You can turn off the message by pressing the PAGE key.

Replacing the Lamp

Once the above message appears, replace the lamp with a new one. Then proceed with the following steps after replacement.


SERVICE

Have you replaced
the lamp?

YES : +
NO : −

1 **While holding down the CONTROL key on the projector, press the RESET key.**

2 **Press the + key if you have already replaced the lamp.**
Press the − key if you have not replaced it.

Notes
- The lamp is too hot just after the power is turned off.
  Remove the lamp after leaving the projector for about 1 hour.
- After attaching the new lamp, if the white balance is not correct, consult the qualified Sony personnel.

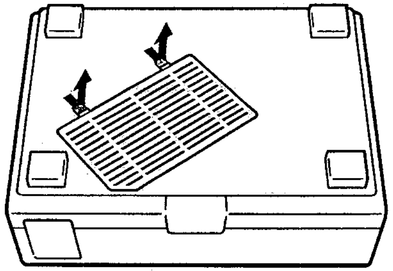
For more information about installing a new lamp, refer to the instruction manual of the lamp.

1-7. CLEANING THE AIR FILTER

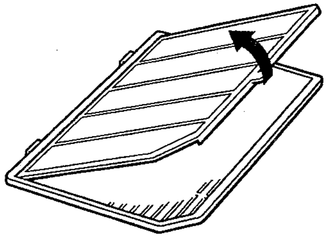
Clean the air filter every 300 hours. When it becomes difficult to clean the dust on the filter, use a new one.

1 **Turn off the MAIN POWER switch and unplug the power cord.**

2 **Remove the air filter cover located at the bottom.**



3 **Remove the air filter.**



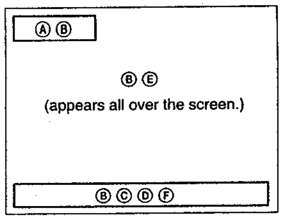
4 **Clean the dust on the filter with the cleaner.**

5 **Attach the air filter, then attach the filter cover.**

Notes
- When the filter is too dusty, wash it with mild detergent solution and dry it in a shaded place.
- Attach the filter cover firmly.

1-8. LIST OF THE MESSAGES

Use the list below to check the meaning of the messages displayed on the screen.
The list is divided into sections according to the location where the message appears. Check the location first, then refer to the corresponding letter for the section to find the message.



A	**Input channel**
VIDEO 1	Input from VIDEO 1
VIDEO 2	Input from VIDEO 2
S VIDEO 1	Input from S VIDEO 1
S VIDEO 2	Input from S VIDEO 2
RGB	Input from RGB
SW'ER x-y (switcher x=1-2, y=1-8)	Input from optional switcher

B	**Message, caution**
NO INPUT	No signal is input.
Not applicable!	The control does not function with the current condition.
MUTING	Muting
OPERATING TEMPERATURE TOO HIGH! This set will be shut down after 5 minutes.	Operating temperature is too high. This set will be shut down after the displayed minutes.
fH is out of range! This input signal cannot be projected as the horizontal freq. is out of range!	The horizontal frequency is out of range. This input signal cannot be projected as the horizontal frequency is out of the acceptable level of the projector.
Time to replace the lamp is nearing. It is recommended that the lamp be replaced before long.	The lamp is exhausted. It is recommended that you replace the lamp with a new one soon.

C	**PICTURE/VOLUME CONTROL data**
CONTR	Contrast
HUE	Hue
COLOR	Color
BRIGHT	Brightness
SHARP	Sharpness
D. PIC	Dinamic picture
COLOR TEMP	Color temperature
VOL	Volume

D	**Optical control data**
ZOOM	Picture size
FOCUS	Focus
PICTURE SHIFT	Picture shift
AUTO FOCUS	The AUTO FOCUS function is used.

E INITIAL SETTING, PAGE

Subtitle	
USER CONTROL	User control
RGB CONTROL	RGB control
PAGE 1	
CONTR	Contrast
HUE	Hue
COLOR	Color
BRIGHT	Brightness
SHARP	Sharpness
D. PIC: ON/OFF	Dynamic picture is on/off.
COLOR TEMP: HIGH/LOW	Color temperature is high/low.
PAGE 2	
H SIZE	Horizontal size
H SHIFT	Horizontal shift
V SHIFT	Vertical shift
CLAMP: AUTO/S on G/H/C	Clamp is set to AUTO/S on G/H/C.
PAGE	
BLUE BACK: ON/OFF	The blue/black display is displayed when no signal is input.
INITIAL SETTING	
BLUE BACK: ON/OFF	The blue/black display is displayed when no signal is input.
H POLARITY: NORMAL/REVERSE	The picture is projected horizontally in normal or reverse.
STATUS: ON/OFF	The on-screen display is displayed or cut.
OPTICAL RESET	The optical adjustment is reset.
LANGUAGE: ENGLISH/DEUTSCH/ FRANCAIS/ITALIANO/ESPANOL	An on-screen display appears in English, German. French, Italian or Spanish.

F Operation

ADJ: SELECT & +/–	Press the SELECT and +/– keys to adjust.
SET: SELECT & +/–	Press the SELECT and +/– keys to set.
SET: +	Press the + key to set.
SET: SELECT & +	Press the SELECT and + keys to set.
NEXT: PAGE	Press the PAGE key to go on to the next page.
EXIT: PAGE	Press the PAGE key to exit the PAGE mode.

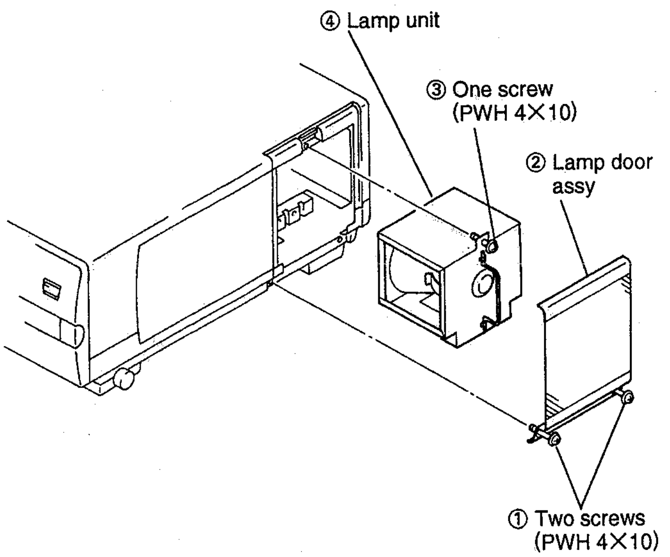
1-9. TROUBLESHOOTING

Disturbance in picture and sound can often be eliminated by checking the symptoms and following the suggestions listed below. If the problem still cannot be solved, consult the qualified Sony personnel.

Symptom	Cause	Corrective Actions
The LAMP indicator lights.	The lamp does not light for some trouble or lamp life.	Replace the lamp with a new one.
The LAMP indicator flashes.	The lamp or the filter cover at the bottom is detached.	Attach the cover firmly.
The TEMP indicator lights.	Internal temperature is too high.	Leave the projector until it is cool. Do not cover the ventilation hole.
The TEMP indicator flashes.	The fan inside the projector stops during operating.	Consult the qualified Sony personnel.
The power is not turned on.	The MAIN POWER switch at the rear is turned off.	Depress the MAIN POWER switch.
The on-screen display does not appear.	The STATUS OFF key is pressed.	Press the STATUS ON key. (See page 17.)
The RGB picture does not fit the screen even when the focus, size and shift of the picture are adjusted.	H SIZE, H SHIFT and/or V SHIFT are/is not adjusted correctly.	Display the PAGE 2 display and adjust H SIZE, H SHIFT and/or V SHIFT so that the picture fits the screen.
The auto focus function does not work.	The distance between the projector and the screen is over 7m (23 feet).	Adjust the focus manually. (See page 14.)
The picture is too dark.	The lamp life is near of the end.	Use a new lamp.
The picture is not clear.	The moisture has condensed.	Leave the projector for about 2 hours.

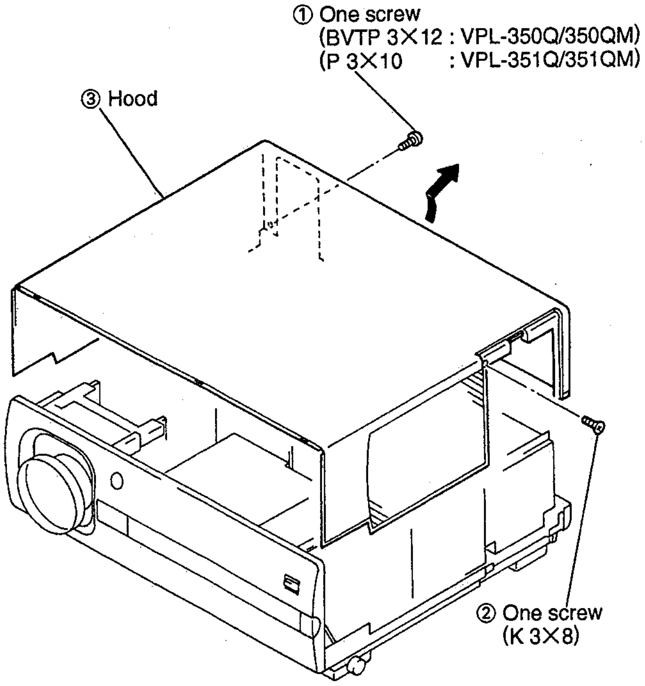
SECTION 2
DISASSEMBLY

2-1. LAMP UNIT REMOVAL


④ Lamp unit
③ One screw
(PWH 4X10)
② Lamp door
assy
① Two screws
(PWH 4X10)

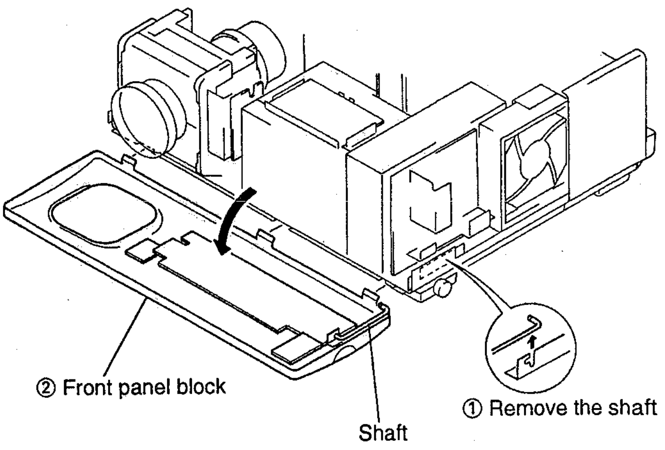
2-2. HOOD REMOVAL

※ Remove the Lamp door before.
(Refer to 2-1)

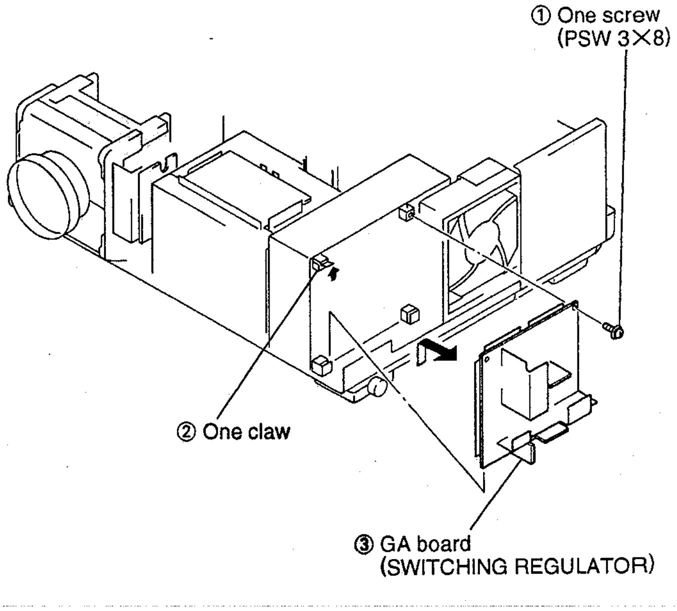

① One screw
(BVTP 3X12 : VPL-350Q/350QM)
(P 3X10 : VPL-351Q/351QM)
③ Hood
② One screw
(K 3X8)

2-3. FRONT PANEL BLOCK REMOVAL

※ Remove the Lamp door and the Hood before.
(Refer to 2-1, 2-2)

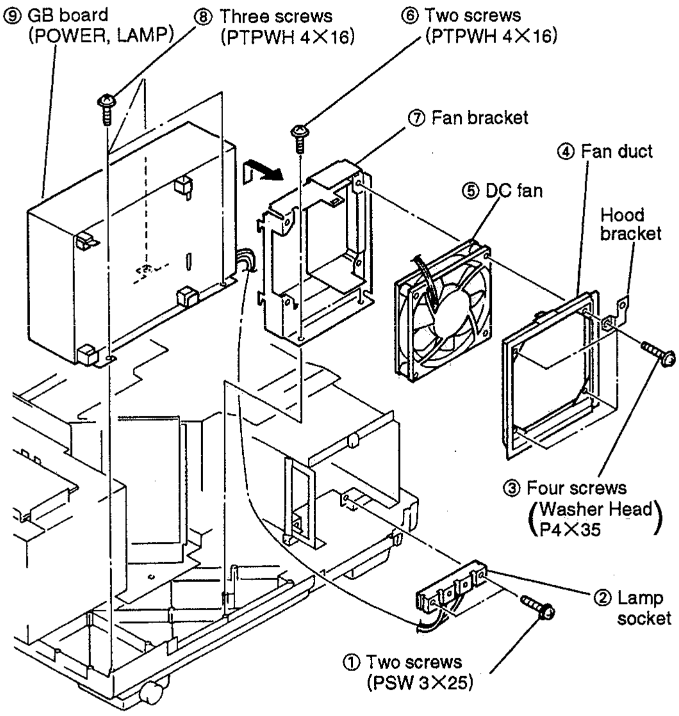

② Front panel block
Shaft
① Remove the shaft

2-4. GA BOARD REMOVAL
(SWITCHING REGULATOR)

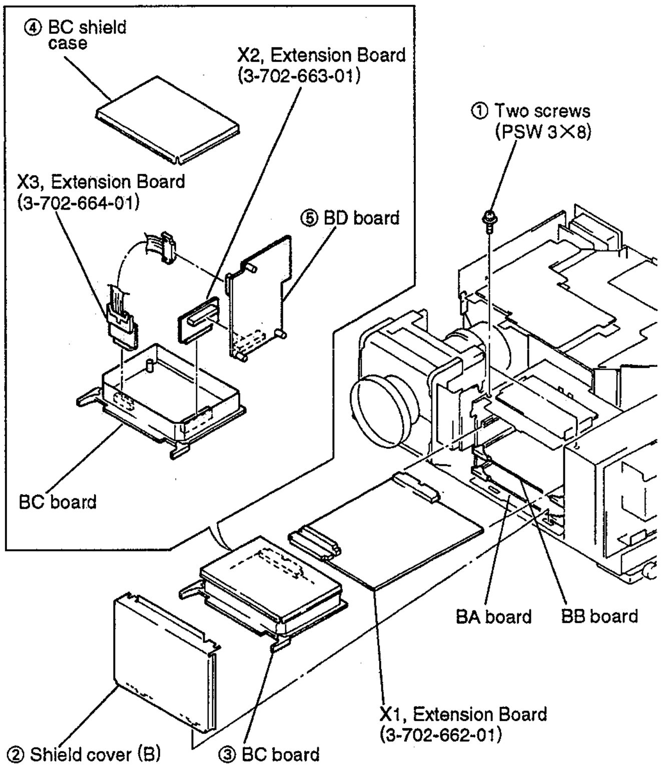

① One screw
(PSW 3X8)
② One claw
③ GA board
(SWITCHING REGULATOR)

2-5. GB BOARD REMOVAL (POWER, LAMP)

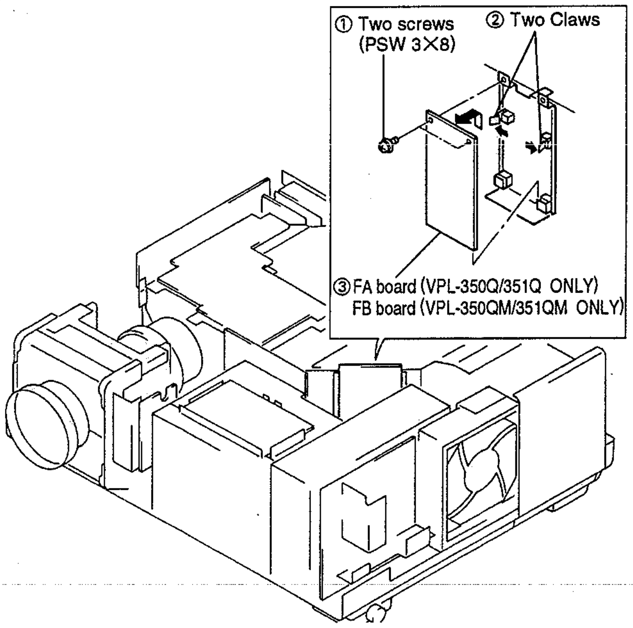
※ Remove the Lamp unit and GA board before. (Refer to 2-1, 2-4)


⑨ GB board (POWER, LAMP)
⑧ Three screws (PTPWH 4×16)
⑥ Two screws (PTPWH 4×16)
⑦ Fan bracket
④ Fan duct
⑤ DC fan
Hood bracket
③ Four screws (Washer Head P4×35)
② Lamp socket
① Two screws (PSW 3×25)

2-7. EXTENSION BOARD (BA, BB, BC AND BD BOARDS REMOVAL)

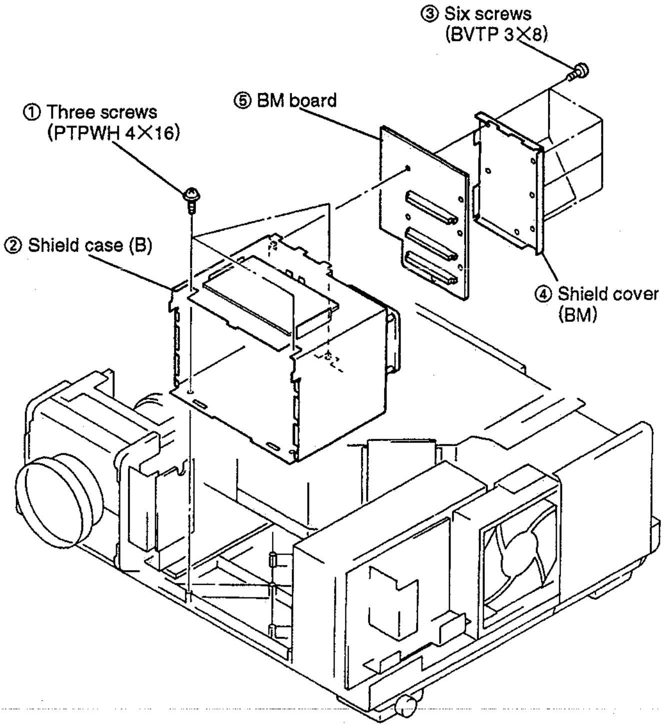

④ BC shield case
X2, Extension Board (3-702-663-01)
X3, Extension Board (3-702-664-01)
⑤ BD board
BC board
① Two screws (PSW 3×8)
BA board
BB board
X1, Extension Board (3-702-662-01)
② Shield cover (B)
③ BC board

2-6. FA OR FB BOARD REMOVAL

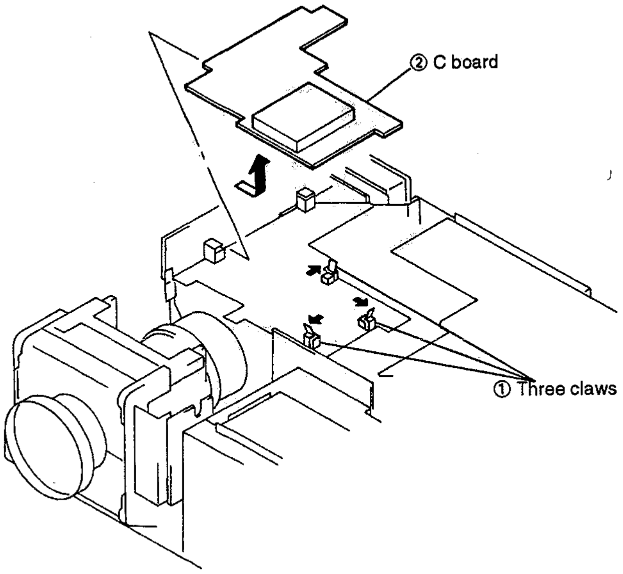

① Two screws (PSW 3×8)
② Two Claws
③FA board (VPL-350Q/351Q ONLY)
FB board (VPL-350QM/351QM ONLY)

2-8. BM BOARD REMOVAL

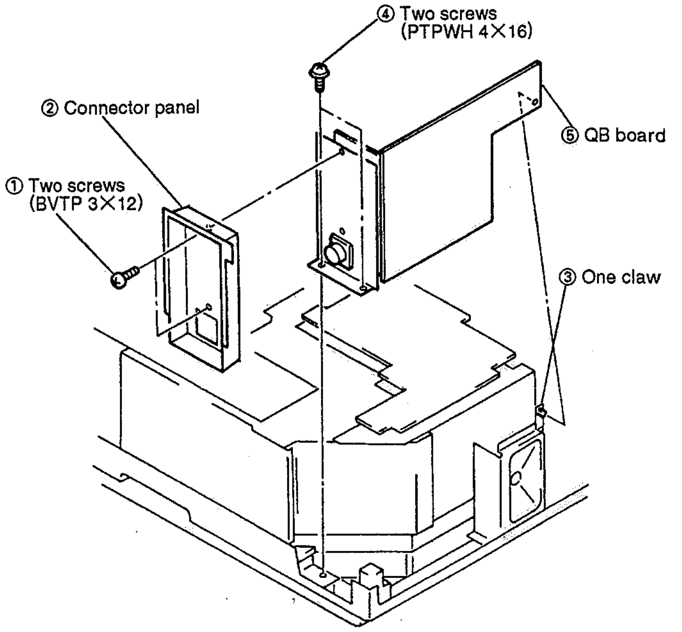
※ Remove the BA, BB and BC boards before. (Refer to 2-7)


③ Six screws (BVTP 3×8)
① Three screws (PTPWH 4×16)
⑤ BM board
② Shield case (B)
④ Shield cover (BM)

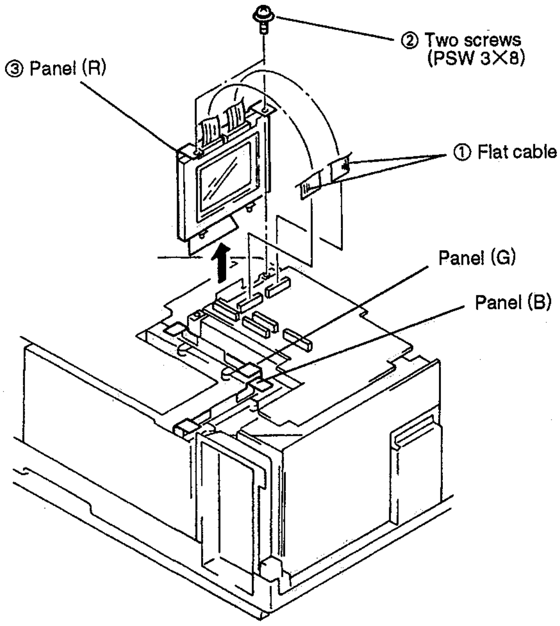
2-9. C BOARD REMOVAL


② C board
① Three claws

2-11. QB BOARD REMOVAL

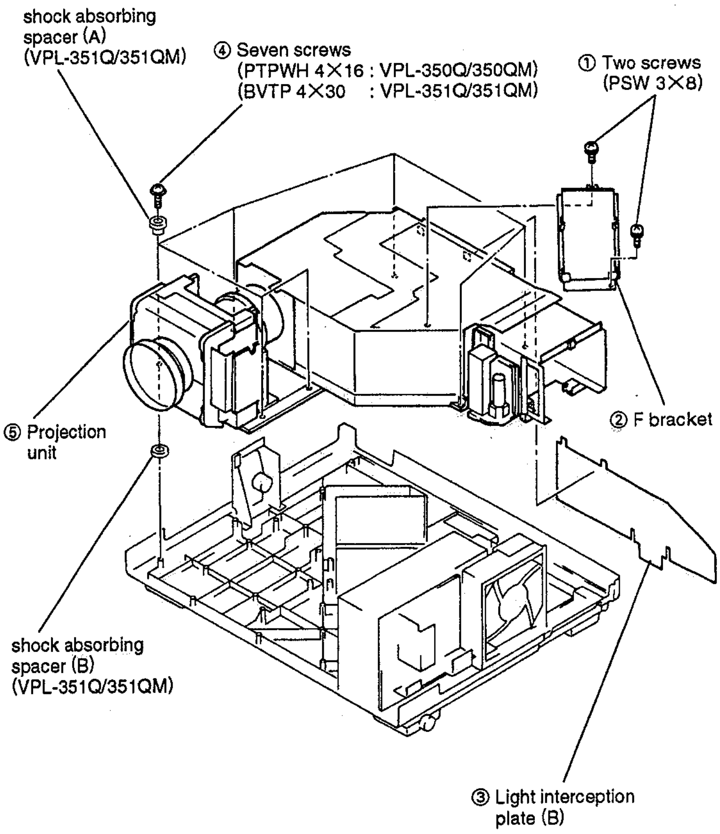

④ Two screws
(PTPWH 4×16)
② Connector panel
⑤ QB board
① Two screws
(BVTP 3×12)
③ One claw

2-10. PANEL (R), (G) AND (B) REMOVAL


② Two screws
(PSW 3×8)
③ Panel (R)
① Flat cable
Panel (G)
Panel (B)

2-12. PROJECTION UNIT REMOVAL

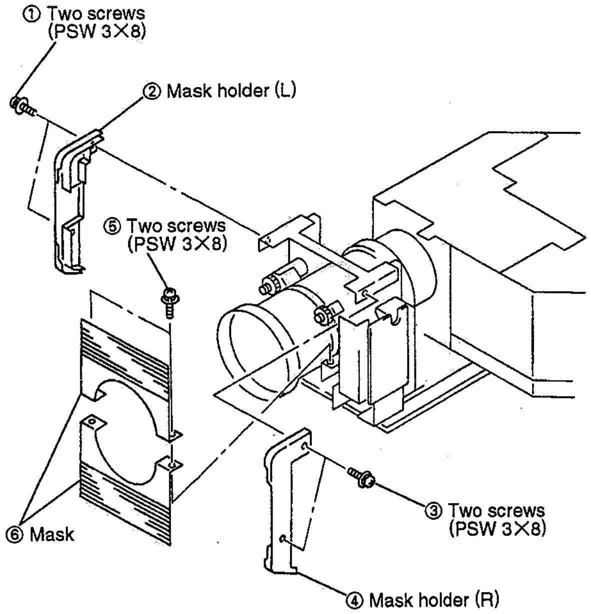
※ Remove the shield case (B), QB board, Lamp unit and C board before. (Refer to 2-5, 2-8, 2-9 and 2-11)


shock absorbing
spacer (A)
(VPL-351Q/351QM)
④ Seven screws
(PTPWH 4×16 : VPL-350Q/350QM)
(BVTP 4×30 : VPL-351Q/351QM)
① Two screws
(PSW 3×8)
⑤ Projection
unit
② F bracket
shock absorbing
spacer (B)
(VPL-351Q/351QM)
③ Light interception
plate (B)

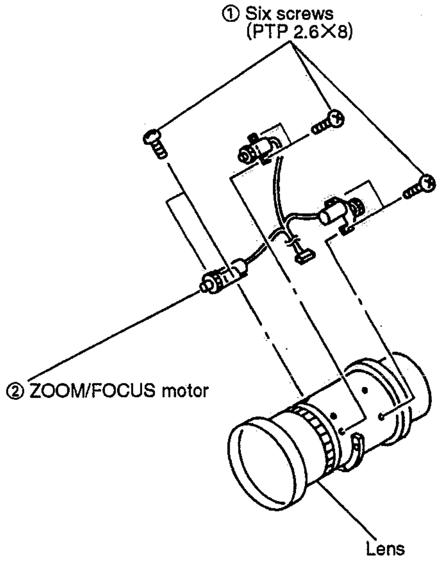
Caution when removing the circuit board and LCD panel.

Even when the main power has been turned off by the main power switch off or by remote control, power is still supplied to the unit for as long as the fans are rotating. The fans must be rotated to cool the unit even after turning off the main power.

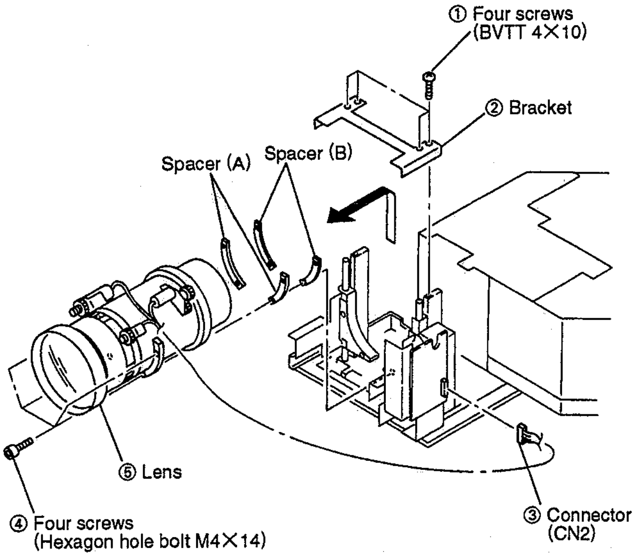
2-13. MASK REMOVAL


① Two screws
(PSW 3×8)
② Mask holder (L)
⑤ Two screws
(PSW 3×8)
⑥ Mask
③ Two screws
(PSW 3×8)
④ Mask holder (R)

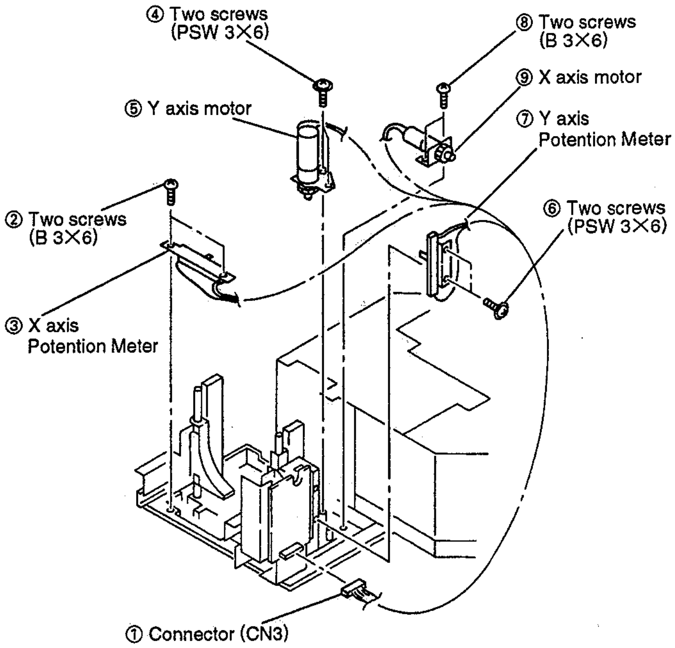
2-15. ZOOM/FOCUS MOTOR REMOVAL


① Six screws
(PTP 2.6×8)
② ZOOM/FOCUS motor
Lens

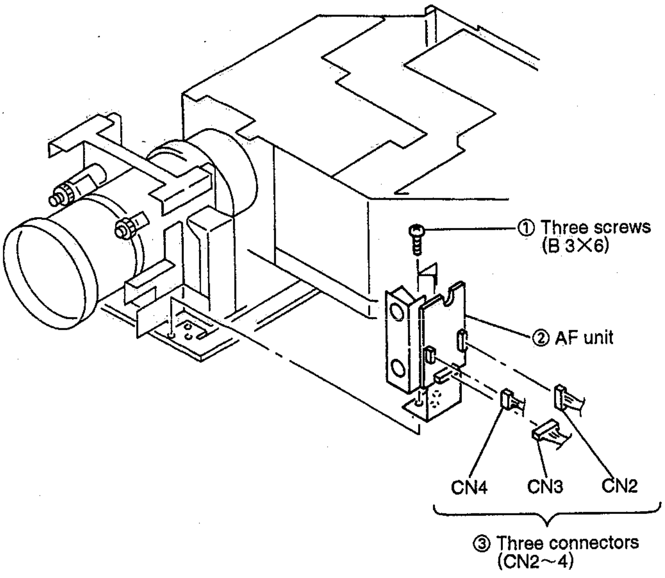
2-14. LENS REMOVAL


① Four screws
(BVTT 4×10)
② Bracket
Spacer (A)
Spacer (B)
⑤ Lens
④ Four screws
(Hexagon hole bolt M4×14)
③ Connector
(CN2)

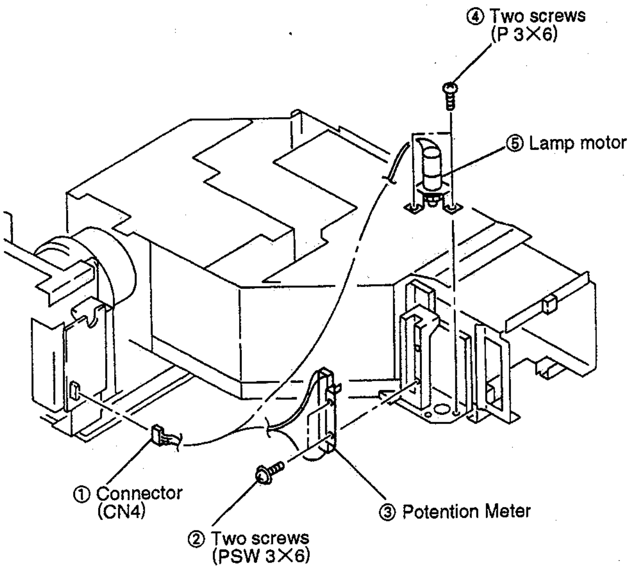
2-16. X/Y AXIS MOTOR REMOVAL


④ Two screws
(PSW 3×6)
⑤ Y axis motor
⑧ Two screws
(B 3×6)
⑨ X axis motor
⑦ Y axis
Potention Meter
② Two screws
(B 3×6)
⑥ Two screws
(PSW 3×6)
③ X axis
Potention Meter
① Connector (CN3)

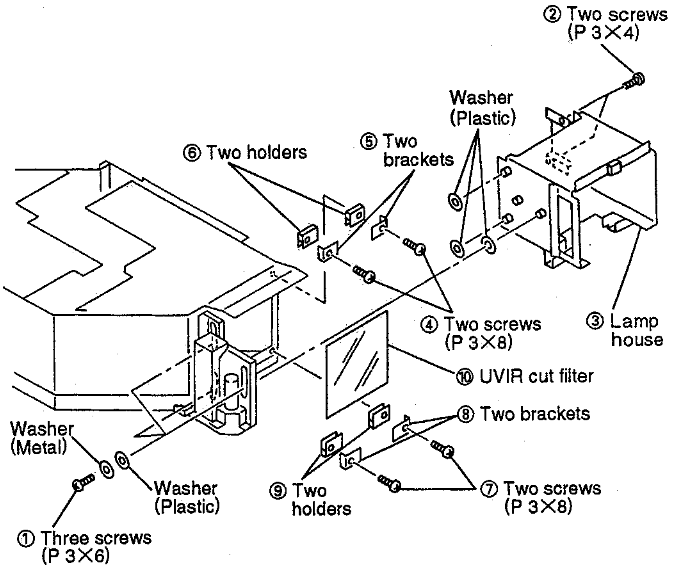
2-17. AF UNIT REMOVAL


① Three screws (B 3×6)
② AF unit
CN4
CN3
CN2
③ Three connectors (CN2~4)

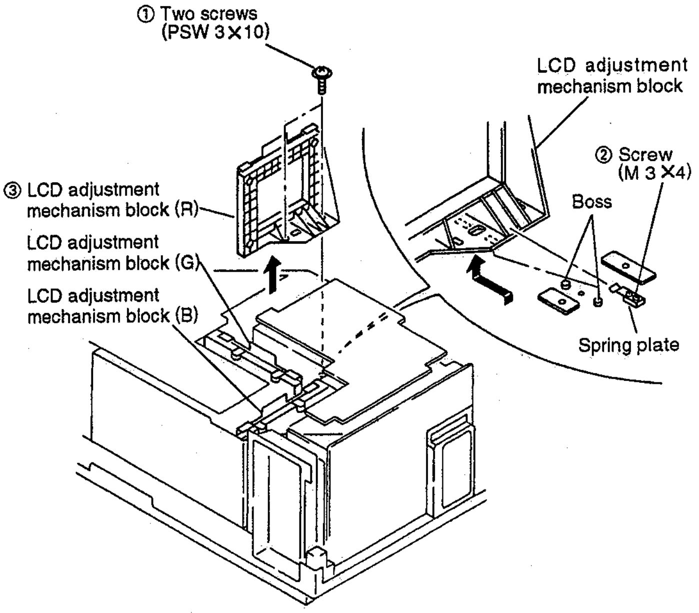
2-18. LAMP MOTOR REMOVAL


④ Two screws (P 3×6)
⑤ Lamp motor
① Connector (CN4)
② Two screws (PSW 3×6)
③ Potention Meter

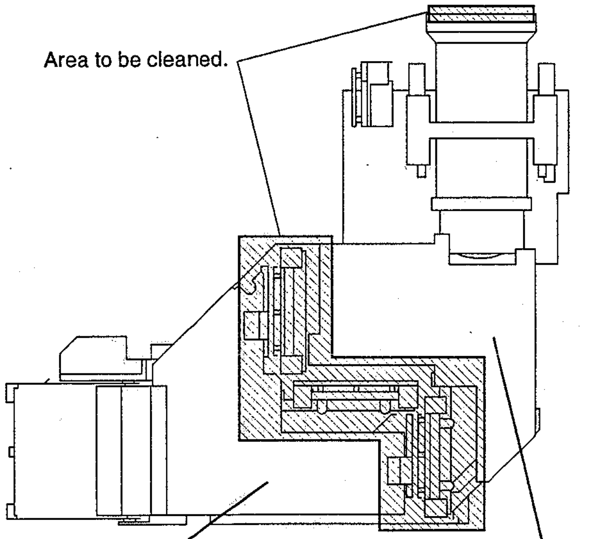
2-19. LAMP HOUSE AND UVIR CUT FILTER REMOVAL


② Two screws (P 3×4)
Washer (Plastic)
⑥ Two holders
⑤ Two brackets
④ Two screws (P 3×8)
③ Lamp house
⑩ UVIR cut filter
⑧ Two brackets
Washer (Metal)
Washer (Plastic)
⑨ Two holders
⑦ Two screws (P 3×8)
① Three screws (P 3×6)

2-20. LCD ADJUSTMENT MECHANISM BLOCK REMOVAL


① Two screws (PSW 3×10)
LCD adjustment mechanism block
② Screw (M 3×4)
Boss
③ LCD adjustment mechanism block (R)
LCD adjustment mechanism block (G)
LCD adjustment mechanism block (B)
Spring plate

2-21. CLEANING PROCEDURE INSIDE PROJECTION UNIT


Area to be cleaned.
Top Panel of Synthesizing System.
(Never remove the panel.)
Top Panel of Illumination System.
(Never remove the panel.)

1. Area that can be cleaned.

Only the hatched area in the drawing can be cleaned.

- LCD panels and surroundings

A-1429-431-A	Panel (B) assembly
A-1429-429-A	Panel (G) assembly
A-1429-427-A	Panel (R) assembly

- Projection lens system: surface of objective lens

CAUTION

- Never clean any area other than that shown in the drawing.
  Never remove the top panels of the illumination system (between Lamp and LCD) or synthesizing system (between LCD and Lens), since this may damage the optical axis of the DM (dichroic mirror), which may then need adjustment.

2. How to clean the objective lens of the projection lens system

(1) Blow off dust and particles using a blower or similar device.

(2) Gently wipe off finger prints or light oil stains with a cleaning cloth for glasses such as Tracy of Toray Co.

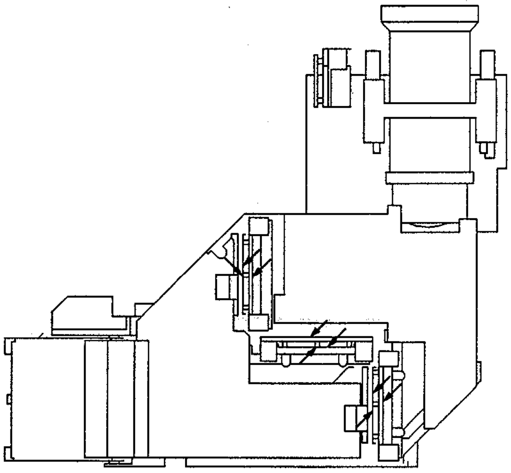
(3) If oil stains cannot be removed, soak a soft cloth or paper with the LCD panel/Polarizer panel cleaning fluid and wipe it off. After wiping with the soaked cloth, wipe again with a dry clean lint-free cloth or paper to remove any cleaning detergent on the lens surface. If cleaning with a dry lint-free cloth or paper is not done properly, white detergent may remain.

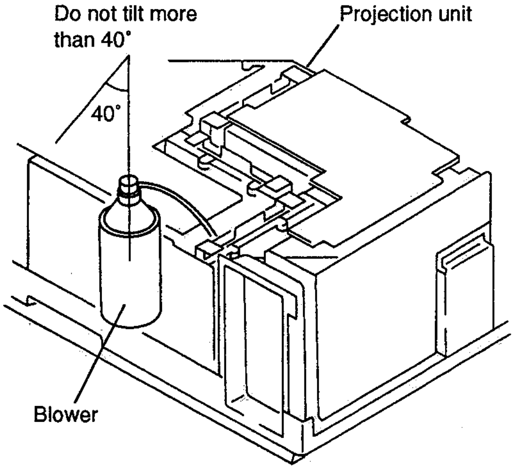
CAUTION

- Before wiping the lens surface with Tracy, cloth or paper, remove all dust and particles using a blower.
- A commercial lens cleaning paper and lens cleaning fluid can also be used. If cleaning fluid is used, thoroughly wipe the lens again with a clean cloth.

3. How to clean the LCD Panel and surroundings

(1) Insert the blower nozzle through the opening of the projection unit, and blow off dust as shown by the arrow below.




Do not tilt more than 40°
40°
Projection unit
Blower

CAUTION

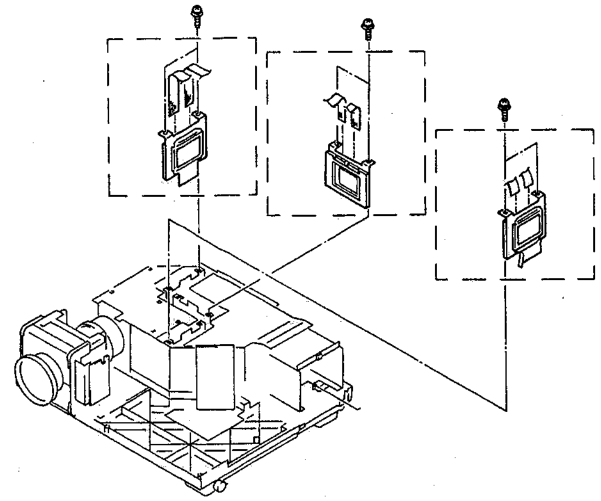
- When using a spray-type blower, never tilt it more than 40°, or the filled gas can be jetted to stain the panel surface.

(2) If stains cannot be cleaned with the blower, remove the panel assembly and clean it.

CAUTION

- If a panel assembly is removed for cleaning, registration adjustment may be necessary.

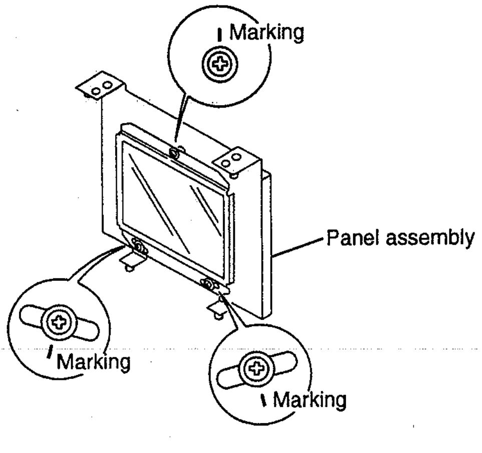
① Unplug the two flat cables which connect board C with the LCD panel, from the board C connector. Remove the two screws and remove the panel assemblies from the projection unit.



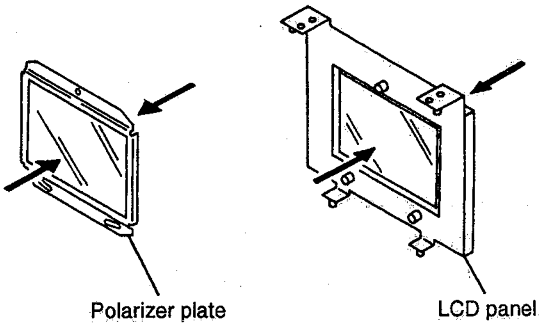
② Pencil-mark the positions of the three screws on the polarizer bracket of the panel assembly, then remove the three screws.

CAUTION

- The angle of each panel of the polarizer bracket has been adjusted independently before attaching it to the panel assembly. Pencil-mark the positions to facilitate attachment after cleaning.



③ Clean gently both sides of the polarizer plate and the LCD panel with soft paper like Sunpackt soaked with the LCD panel/Polarizer panel cleaning fluid where shown by the arrow.



After wiping with soaked paper, thoroughly wipe again with a dry clean lint-free paper.

CAUTION

- Sony cleaning cloth (J-6090-011-A) or Tracy (glasses cleaner) can be used instead of Sunpackt.
- Do not use lens cleaning paper or similar which may scratch the polarizing plate as it is softer than glass.
- Do not use lens cleaning fluid or cleaning detergent like a glass-cleaner, since the solvent in them may damage the polarizing plate.
- If cleaning with a dry lint-free cloth is not done properly, white detergent may remain.

④ Align the markings correctly and attach the polarizing bracket to the panel assembly.

CAUTION

- The polarizing plate has a front and a back; do not attach the wrong way around. Attach it so that the marking in step w is to the front.

⑤ Attach the panel assemblies to the unit. Project a video image to check if the registration is correct. If not, adjust the registration.

SECTION 3
SET-UP ADJUSTMENTS

- Employ following jig for optical system adjustment.
  Equipment to be used :Pattern generator
  Luminance meter (MINOLTA CS-100)

Adjustment jig :LCD panel adjustment jig. (3-702-661-01)
Eccentric driver (3-702-666-01)
Hexagon wrenches driver (3-702-665-01)
Light interception board

• Note for adjustment

Set into SERVICE MODE

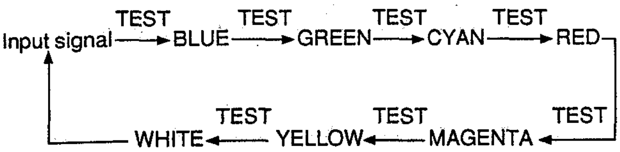
- Press (+) key after pressed TEST key on the remote commander. Indicates a word of SERVICE at the right upper part of the screen and set into SERVICE MODE.

Release from SERVICE MODE

- Press (+) key after pressed TEST key on the remote commander.

As to built-in test pattern generator. (VPL-350Q/350QM)

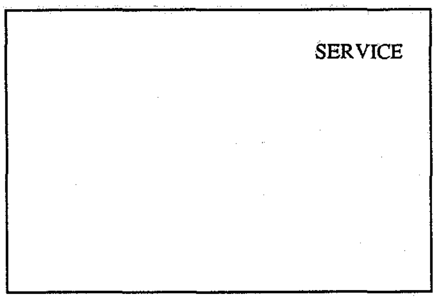
- Press TEST key after in SERVICE MODE, the test pattern (raster) displays instead of input signal and able to change the color of the screen like following order.


TEST
TEST
TEST
TEST
Input signal
BLUE
GREEN
CYAN
RED
TEST
TEST
TEST
WHITE
YELLOW
MAGENTA

As to built-in test pattern generator. (VPL-351Q/351QM)

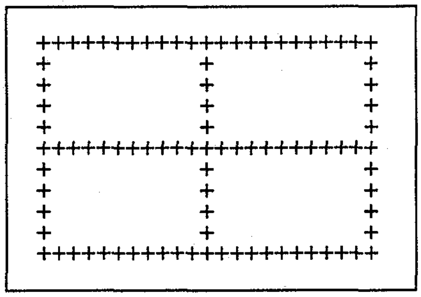
- Built-in test pattern displays following two kinds.

1. Raster displays (Tracking adjustment/Z shaft adjustment)



Push TEST key within 3 seconds after pushed POWER ON key

2. Cross pattern displays (Registration adjustment)

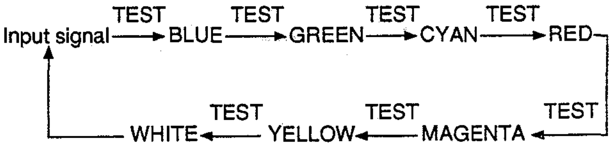


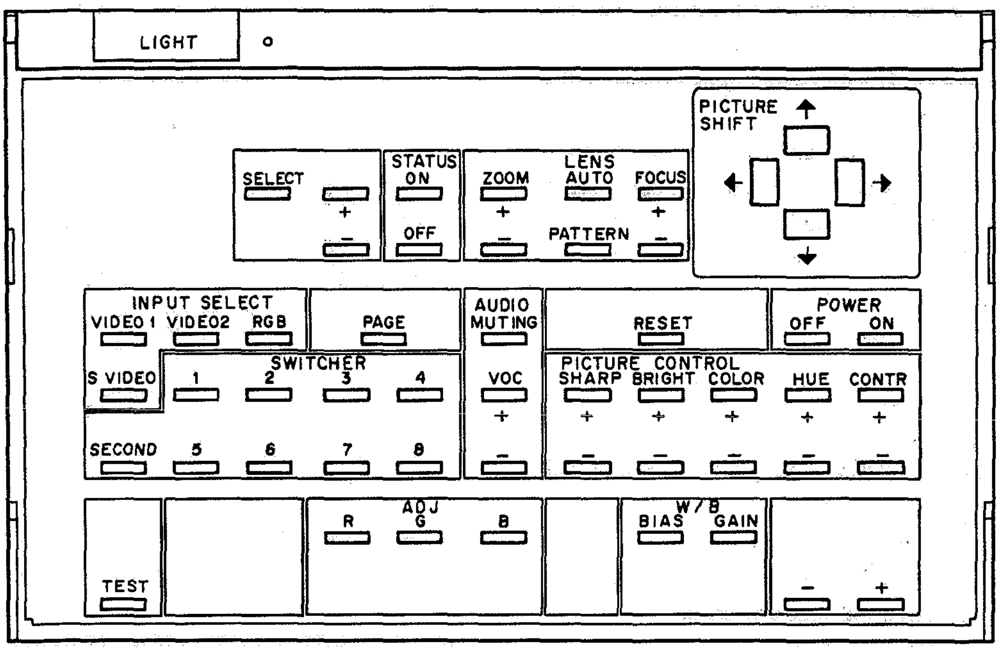
When set into SERVICE MODE it displays pattern 1 certainly.

Change the pattern 1 to the pattern 2.

Push TEST key within 3 seconds after pushed POWER ON key to change the pattern 2 to the pattern 1.

Whenever pushing TEST key, It's able to change the color of the screen at step 1 or the color of the cross pattern at step 2 like following order.


TEST
TEST
TEST
TEST
Input signal
BLUE
GREEN
CYAN
RED
TEST
TEST
TEST
WHITE
YELLOW
MAGENTA


LIGHT
PICTURE SHIFT
SELECT
+
–
STATUS
ON
OFF
LENS
ZOOM
AUTO
FOCUS
PATTERN
INPUT SELECT
VIDEO1
VIDEO2
RGB
PAGE
AUDIO MUTING
RESET
POWER
OFF
ON
S VIDEO
SWITCHER
1
2
3
4
VOC
PICTURE CONTROL
SHARP
BRIGHT
COLOR
HUE
CONTR
SECOND
5
6
7
8
ADJ
R
G
B
W/B
BIAS
GAIN
TEST

It is necessary following adjustment when replaced each panel ASSY after setted into SERVICE MODE.

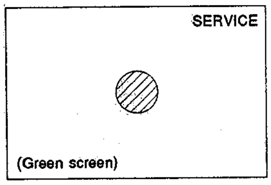
1) GREEN panel replacement
   - 3-1. Tracking adjustment (GREEN)
   - 3-4. Registration adjustment (GREEN)
   - 4-4. V.COM G adjustment (C board RV302)

2) BLUE panel replacement
   - 3-3. Z shaft adjustment (BLUE)
   - 3-5. Registration adjustment (BLUE)
   - 4-4. V.COM B adjustment (C board RV303)

3) Red panel replacement
   - 3-2. Z shaft adjustment (RED)
   - 3-4. Registration adjustment (GREEN)
   - 3-5. Registration adjustment (BLUE)
   - 4-4. V.COM R adjustment (C board RV301)

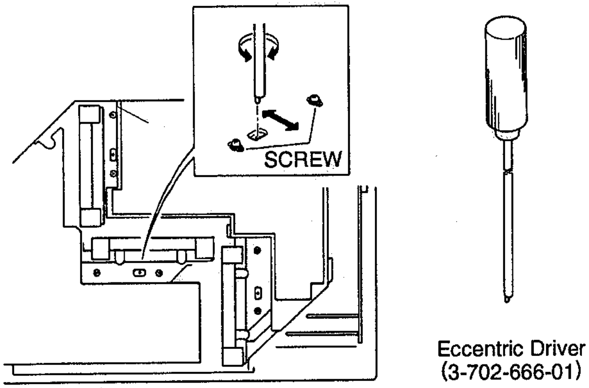
3-1. TRACKING ADJUSTMENT (GREEN LCD)

1) Set the remote commander to SERVICE MODE, and press TEST key to becomes a solid-green screen.
2) Continuing to press the ZOOM (-) key to its extreme TELE position (minimized screen state).
3) After pressed LENS AUTO key to focus rough, set the focus at a position that provides the highest definition dot of center on the screen with FOCUS (+) and (-).



Note :Displays SERVICE in the screen.

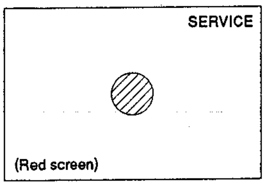
4) Continuing to press the ZOOM (+) key to its extreme WIDE position (maximum screen state).
5) Loosen two fixation screw of LCD panel.
6) Set the focus at a position that provides the highest definition dot of center on the screen with eccentric driver.



7) Continue to pressing ZOOM key to TELE end.
8) Set the focus at a position that provides the highest definition dot of center on the screen with FOCUS (+) and (-) key on the remote commander.
9) Repeat procedure 4) to 8) to assure the definition focus of WIDE end and TELE end.
10) Fasten two fixation screws on the LCD panel.

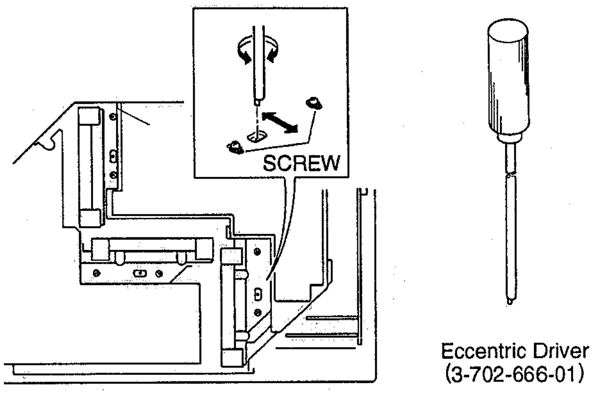
3-2. Z SHAFT ADJUSTMENT (RED)

1) Press ZOOM (+) key to WIDE end.
2) Press TEST key to become GREEN screen and confirm that the focus is in. Adjust with the focus (+), (-) keys if the focus is out of.
3) Press TEST key to become a solid-RED screen.



Note :Displays SERVICE in the screen.

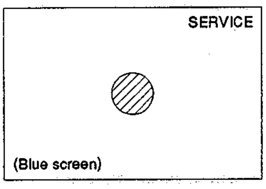
4) Loosen two fixation screws on the LCD panel.
5) Move the Z direction with eccentric driver to focalize.



6) Fasten two fixation screws on the CLD panel.
7) Release RED screen with pressing TEST (+) key.

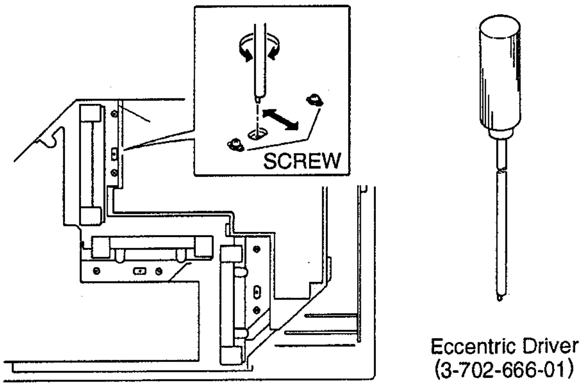
3-3. Z SHAFT ADJUSTMENT (BLUE)

1) Press ZOOM (+) key to WIDE end.
2) Press TEST key to become GREEN screen and confirm that the focus is in. Adjust with the focus (+), (-) keys if the focus is out of.
3) Press TEST key to become BLUE screen.



* Displays SERVICE in the screen.

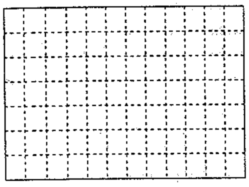
4) Loosen two fixation screws on the CLD panel.
5) Move the Z direction with eccentric driver to focalize.



6) Fasten two fixation screws on the LCD panel.
7) Release BLUE screen with pressing TEST (+) key.

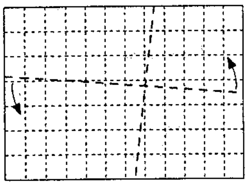
3-4. PANEL REGISTRATION ADJUSTMENT (GREEN)

1) Display cross pattern with using built-in test pattern or input cross hatch pattern from pattern generator.
2) Press TEST key to receive input signal.



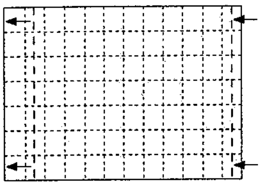
Cross-hatch pattern

3) Set the light interception board to the BLUE panel. (Fig. 3-2)
4) Set the LCD Panel Adjustment jig to GREEN panel. (Fig. 3-3)
   Note: Thrust installation surface to the CLD holder when setting adjustment jig to LCD holder.
5) Loosen four panel fixation screws with hexagon wrenches driver. (Fig. 3-4)
6) Put LCD holder holes together to adjustment jig holes and fix with adjustment jig screw. (Fig. 3-3)
7) Adjust the rotation while rotating the rotation adjustment knob.

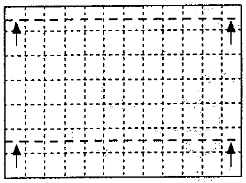


Rotation adjustment

8) Fix with lock screw.
   Note: Fix with lock screw certainly after adjust the rotation.
9) Adjust X and Y shafts with each knobs of adjustment jig.

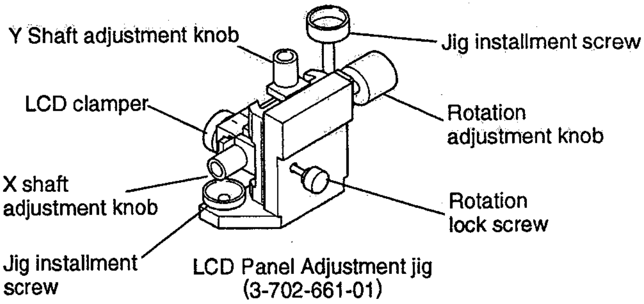


X shaft adjustment



Y shaft adjustment

10) Fasten four panel fixation screws with hexagon wrenches driver after adjust.
11) Remove adjustment jig after fixed.



Y Shaft adjustment knob
Jig installment screw
LCD clamper
Rotation adjustment knob
X shaft adjustment knob
Rotation lock screw
Jig installment screw
LCD Panel Adjustment jig (3-702-661-01)

Fig. 3-1

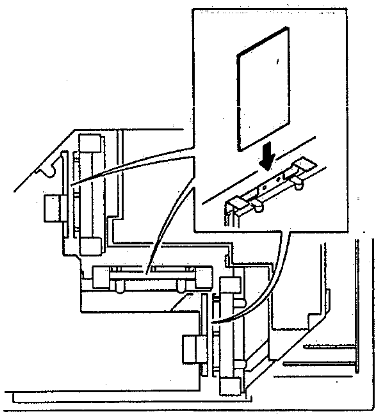


Fig. 3-2

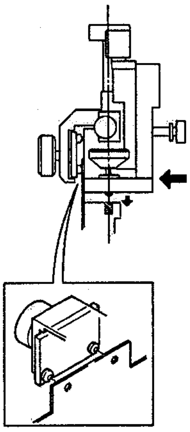
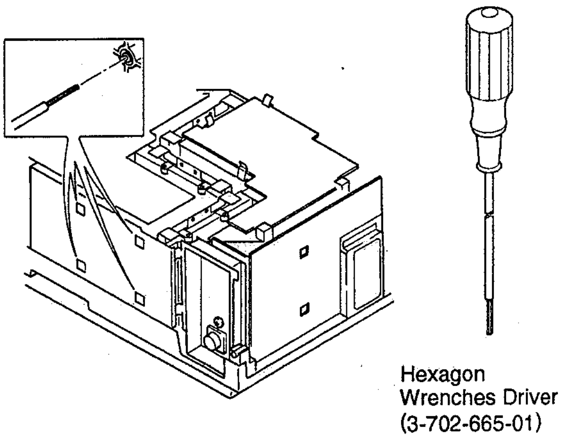


Fig. 3-3

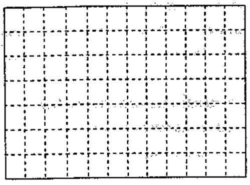


Hexagon Wrenches Driver (3-702-665-01)

Fig. 3-4

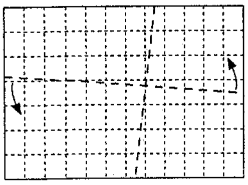
3-5. PANEL REGISTRATION ADJUSTMENT (BLUE)

1) Display cross pattern with using built-in test pattern or input cross hatch pattern from pattern generator.
2) Press TEST key to receive input signal.



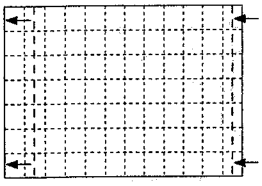
Cross-hatch pattern

3) Set the light interception board to the GREEN panel. (Fig. 3-6)
4) Set the LCD Panel Adjustment jig to BLUE panel. (Fig. 3-7)
   Note: Thrust installation surface to the CLD holder when setting adjustment jig to LCD holder.
5) Loosen four fixation screws of the panel with hexagon wrenches driver. (Fig. 3-8)
6) Put LCD holder holes together to adjustment jig holes and fix with adjustment jig screw. (Fig. 3-7)
7) Adjust the rotation while rotating the rotation adjustment knob.

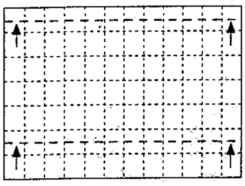


Rotation adjustment

8) Fix with lock screw.
   Note: Fix with lock screw certainly after adjust the rotation.
9) Adjust X and Y shafts with each knobs of adjustment jig.

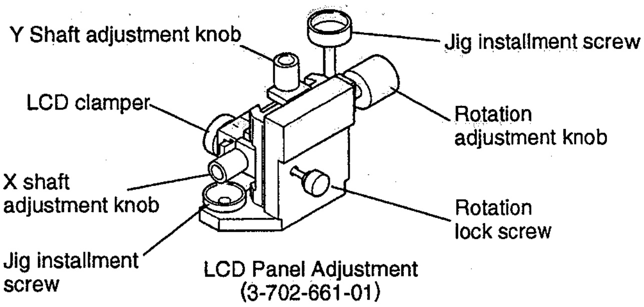


X shaft adjustment



Y shaft adjustment

10) Fasten four panel fixation screws with hexagon wrenches driver after adjust.
11) Remove adjustment jig after fixed.


Y Shaft adjustment knob
Jig installment screw
LCD clamper
Rotation adjustment knob
X shaft adjustment knob
Rotation lock screw
Jig installment screw

LCD Panel Adjustment
(3-702-661-01)

Fig. 3-5

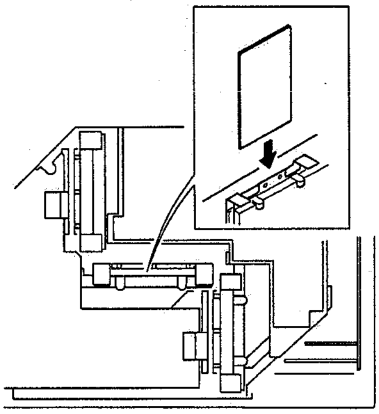


Fig. 3-6

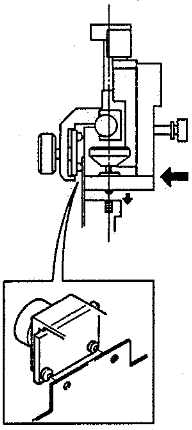


Fig. 3-7

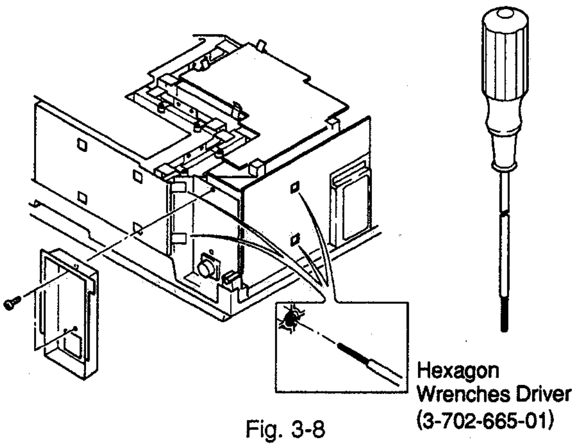

Hexagon
Wrenches Driver
(3-702-665-01)

Fig. 3-8

3-6. WHITE BALANCE ADJUSTMENTS

3-6-1. PREPARATION

1) Receive all white 100% signal from the pattern generator and heating over 20 minutes.
2) Set up the pattern generator and the set like following prerequisite.

   The pattern generator set up
   - Signal : All white
   - LUMI : 100 IRE
   - CHROMA : OFF
   - R. G. B : All ON

   MODE set up
   - Set to SERVICE MODE
   - Dynamic picture : OFF
   - Color : MIN
   - Contrast : MAX
   - Bright : 50
3) Press PAGE key of the remote commander to set to PAGE 3.
4) Take notes of BIAS/GAIN value of COL. TEMP HIGH/LOW like table-1.

Example:

COL. TEMP	—	R	G	B
HIGH	BIAS	120	123	117
	GAIN	242	238	249
LOW	BIAS	121	124	117
	GAIN	246	239	226

*To confirm the gain value.

Table 1.

5) Mark the highest BIAS/GAIN pair of the six GAIN values in the table-1.

   Note : Any values are available if the maximum GAIN value is not one.

3-6-2. LAMP COLOR TEMPERATURE MEASUREMENT

1) Set up the set like following prerequisite.

   MODE set up
   - COL. TEMP. HIGH/LOW set up
   - GAIN value : Set all R. G. B to maximum.
   - BIAS value : Set all R. G. B to 128.
   - Press STATUS OFF switch after setted the above value.
2) Measure the color temperature with the luminance meter (CS-100etc).
3) Interpret the fixation CH with Fig. 3-9 and 3-10.

   Assuming that the value of color temperature X=0.300 and Y=0.323;

   9300°K (Fig. 3-9) = B fixation

   6500°K (Fig. 3-10) = R fixation

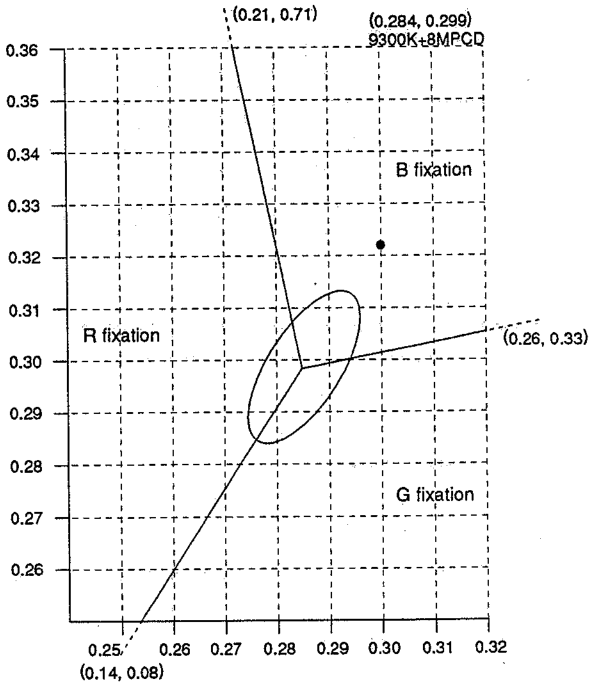


Fig. 3-9

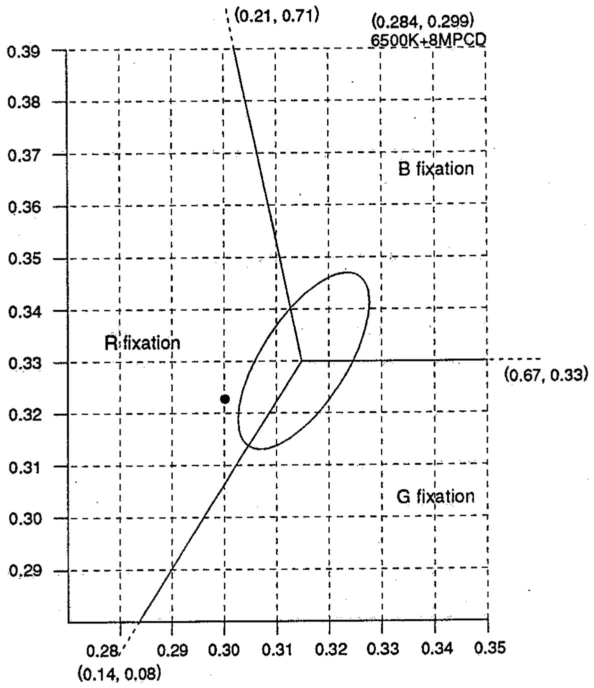


Fig. 3-10

4) Set to STATUS ON and establish BIAS/GAIN value of marked at 3-6-1. step 5) to each fixation CH at step 3).
(▨ maked of Table 2)

Example:

COL. TEMP	—	R	G	B
HIGH	BIAS	128	128	117
	GAIN	MAX	MAX	249
LOW	BIAS	117	128	128
	GAIN	249	MAX	MAX

Table 2.

3-6-3. 9300°K WHITE BALANCE ADJUSTMENT

1) Set up the pattern generator and the set like following prerequisite.
Set up value of the set
• COL. TEMP: HIGH
Set up value of the pattern generator
• LUMI: 15 IRE
2) Adjust the BIAS of the other 2 channels (R CH and G CH in this case) except fixation CH until the color temperature becomes C_{93}=(0.284, 0.299).
Note: Do not change the GAIN of the fixation CH.
(Set the value while measuring color temperature point with CS-100 etc.)
3) Change the set value of pattern generator like following prerequisite.
• LUMI: 100 IRE
4) Adjust the GAIN of the other 2 channels (R CH and G CH in this case) except fixation CH until the color temperature becomes C_{93}=(0.284, 0.299).
Note: Do not change the GAIN of the fixation CH.
5) Repeat step 1) ~ 4) to take trackings.

3-6-4. 6500°K WHITE BALANCE ADJUSTMENT

1) Set up the pattern generator and the set like following prerequisite.
Set up value of the set
• COL. TEMP: LOW
Set up value of the pattern generator
• LUMI: 15 IRE
2) Adjust the BIAS of the other 2 channels (B CH and G CH in this case) except fixation CH until the color temperature becomes C_{65}=(0.313, 0.330).
Note: Do not change the BIAS of the fixation CH.
(Set the value while measuring color temperature point with CS-100 etc.)
3) Change the set value of pattern generator like following prerequisite.
• LUMI: 100 IRE
4) Adjust the GAIN of the other 2 channels (B CH and G CH in this case) except fixation CH until the color temperature becomes C_{65}=(0.313, 0.330).
Note: Do not change the GAIN of the fixation CH.
5) Repeat step 1) ~ 4) to take trackings.
6) After press TEST key and + key on the remote commander in turn, press + key again to memorize adjustment value and release from the SERVICE MODE.
Note : When you don't want to memorize adjustment value it is able to release from the SERVICE MOE and not memorize the adjustment value to press – key after pressed TEST and + keys.

3-6-5. CONFIRMATION AFTER ADJUSTMENT

1) Confirm that the balance is equibrate after reset CONT and COL.

[In case of without luminance meter (CS-100 etc.), adjust numerical value of C_{93} while confirming with the eye.]

3-7. AUTO FOCUS ADJUSTMENT

1) Establish the "maintenance staff" mode. Display green color only. Confirm that the above tracking adjustment is complete.
2) To adjust the auto focus correctly, carry out the following adjustment with the front panel attached. (If the front panel has been removed, attach it adhesive tape etc.)
3) Keep pressing ZOOM (–) key until the projected picture is minimized.
4) Keep pressing FOCUS (–) key.
5) Install projector 3.5 m apart from screen. Project an image.
6) Press the LENS AUTO key while observing the projected image. Check whether the focus point is "A" or "B" shown in the following table.

Projection distance	Focus point	
3.5m	Focus point is before the correct point. B	Focus point is too far. A
1.5m	Focus point is too far. b	Focus point is before the correct point. a

Table 3.

7) Install projector 1.5 m apart from screen. Project an image.
8) Press the LENS AUTO key while observing the projected image. Check whether the focus point is "a" or "b" shown in the table on previous page.
9) From combination of the two results obtained from step 6) and step 8), find whether VR1 or VR2 must be adjusted from the table shown below.

3.5m	1.5m	How to adjust VR1 and VR2
A	a	Turn VR1 clockwise.
A	b	Turn VR2 counter-clockwise.
B	a	Turn VR2 clockwise.
B	b	Turn VR1 counter-clockwise.

Table 4.

10) Repeat steps 5) to 9) until auto focus is established in both 3.5 m and 1.5 m distances.

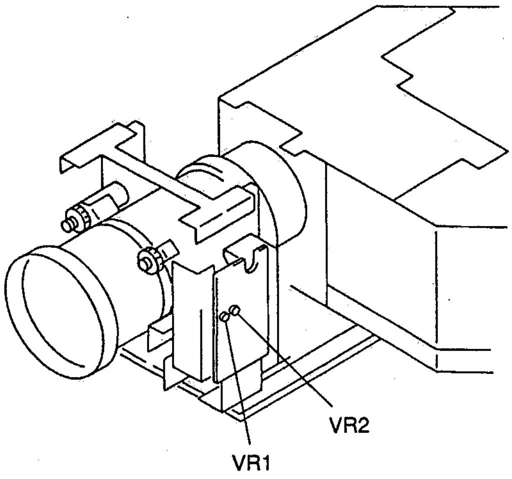
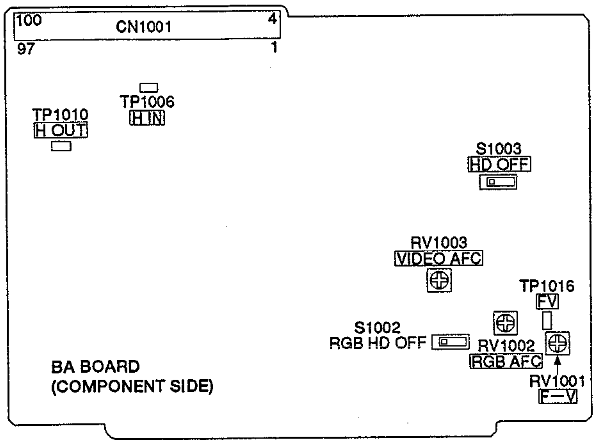


Fig. 3-11

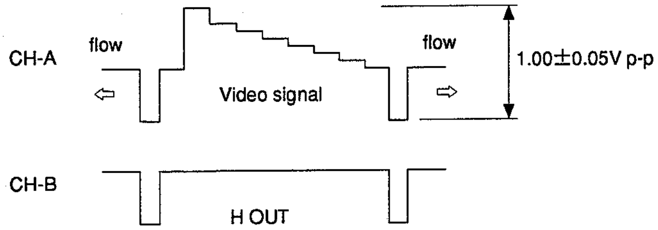
SECTION 4
CIRCUIT ADJUSTMENTS

4-1. BA BOARD ADJUSTMENTS


100
CN1001
4
97
1
TP1006
H IN
TP1010
H OUT
S1003
HD OFF
RV1003
VIDEO AFC
TP1016
FV
S1002
RGB HD OFF
RV1002
RGB AFC
RV1001
F-V
BA BOARD
(COMPONENT SIDE)

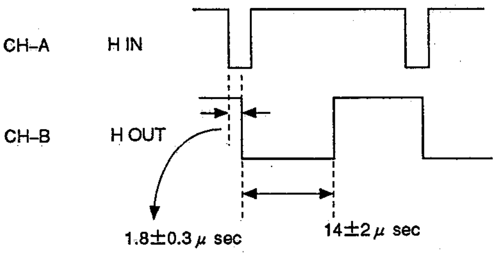
VIDEO AFC Adjustment (RV1003)

1. Input NTSC video signal. (f_H=15.7k Hz. fv=60 Hz)
2. Slide ON S1003 (HD OFF) and set at image free running state.
3. Connect the CH-A of oscilloscope to CN1001 pin (95) (VIDEO Signal).
   Note : Careful to not short to the neighboring pins.
4. Connect the CH-B of oscilloscope to TP1010 (H OUT).
5. Adjust RV1003 to synchronize the CHA and the CH-B signals.

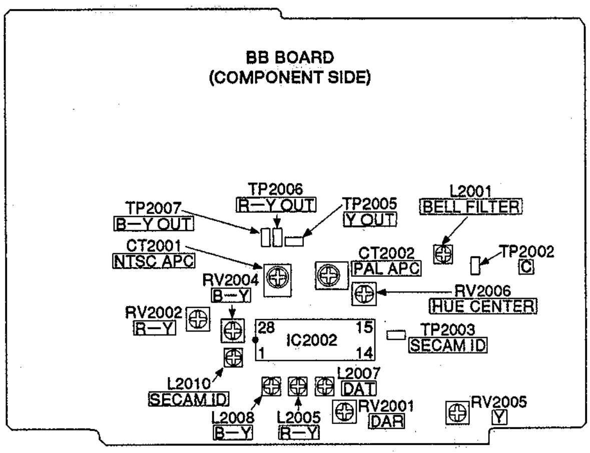

CH-A
flow
flow
⇦
Video signal
⇨
1.00±0.05V p-p
CH-B
H OUT

RGB AFC Adjustment (RV1001, RV1002)

1. Input RGB signal. (f_H=33.4k Hz. fv=60 Hz)
2. Slide ON S1002 (RGB HD OFF) and set at image free running state.
3. Connect the digital multimeter to TP1016 (FV) and RV1001 (F-V) adjust until FV voltage becomes 2.20±0.05V.
4. Connect the CH-A of oscilloscope to TP1006 (H IN).
5. Connect the CH-B of oscilloscope to TP1010 (H OUT).
6. Adjust RV1002 (RGB AFC) to synchronize the CH-A and the CH-B signals.


CH-A
H IN
CH-B
H OUT
1.8±0.3 μ sec
14±2 μ sec

4-2. BB BOARD ADJUSTMENTS


BB BOARD
(COMPONENT SIDE)
TP2006
R-Y OUT
TP2007
B-Y OUT
TP2005
Y OUT
L2001
BELL FILTER
CT2001
NTSC APC
CT2002
PAL APC
TP2002
C
RV2004
B-Y
RV2006
HUE CENTER
RV2002
R-Y
28
15
IC2002
1
14
TP2003
SECAM ID
L2010
SECAM ID
L2007
DAT
L2008
B-Y
L2005
R-Y
RV2001
DAR
RV2005
Y

PAL APC Adjustment (CT2002)

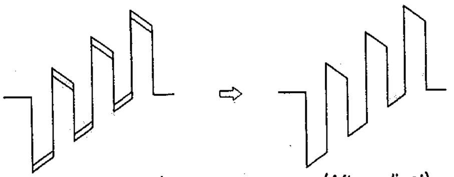
1. Input PAL color bar signal.
2. Connect 3.3kΩ to IC2002 pin ㉘, apply 12V DC and set at PAL forced Mode.
3. Adjust CT2002 so that the screen becomes colored.
4. Ground IC2002 pin ⑰ and turn color-killer OFF.
5. Adjust CT2002 to the color current becomes extreme slowly.
6. Release 2 and 4.

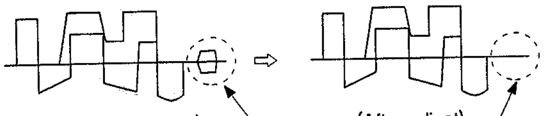
NTSC APC Adjustment (CT2001)

1. Input NTSC color bar signal.
2. Connect 3.3kΩ to IC2002 pin㉘, apply 12V DC and set at NTSC forced Mode.
3. Adjust CT2001 so that the screen becomes colored.
4. Ground IC2002 pin⑰ and turn color-killer OFF.
5. Adjust CT2001 to the color current becomes extreme slowly.
6. Release 2 and 4.

1H DELAY LINE Adjustment (L2007, RV2001)

1. Input PAL color bar signal.
2. Connect 3.3kΩ to IC2002 pin㉘, apply 12V DC and set at PAL forced Mode.
3. Connect the oscilloscope to TP2007 (B–Y OUT) and view waveform in H block.
4. Adjust L2007 (DAT) and minimize double outline part of the waveforms.
5. Input PAL special color bar signal.
6. Adjust RV2001 (DAR) to become wave ANTI PAL part is at 0–level.
7. L2007 and RV2001 influence mutually so adjust repetition until both conditions are satisfied.


(Before adjust) (After adjust)

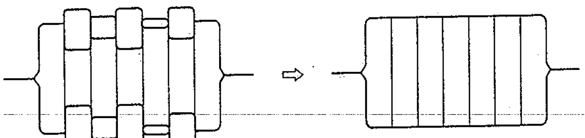

(Before adjust) (After adjust)
These parts are in accord with 0 level.

SECAM ID Adjustment (L2010)

1. Input SECAM color bar signal.
2. Connect 3.3kΩ to IC2002 pin㉗, apply 12V DC and set at SECAM forced Mode.
3. Connect the digital multimeter to TP2003 (SECAM ID). (Input impedance over 10MΩ)
4. Adjust L2010 until the voltage of TP2003 (SECAM ID) becomes maximum.

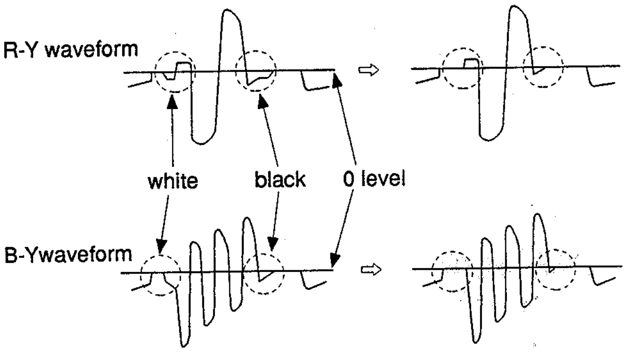
BELL Filter Adjustment (L2001)

1. Input SECAM color bar signal.
2. Connect 3.3kΩ to IC2002 pin㉗, apply 12V DC and set at SECAM forced Mode.
3. Connect the oscilloscope to TP2002 (C) and view waveform of H block.
4. Adjust L2001 until waveform become flat.


(Before adjust) (After adjust)
Note: Be sure to take trackings of L2010 and L2001

SECAM DISCRI Adjustment (L2005, L2008)

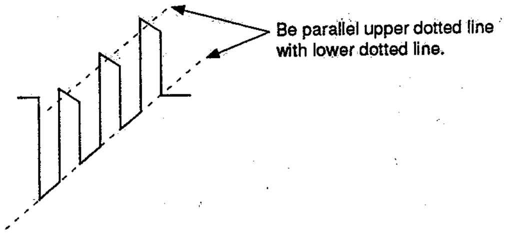
1. Input SECAM color bar signal.
2. Connect 3.3kΩ to IC2002 pin㉗, apply 12V DC and set at SECAM forced Mode.
3. Connect the oscilloscope to TP2006 (R–Y OUT) and view waveform of H block.
4. Adjust L2005 (R–Y) until the part that corresponding white and black of TP2006 (R–Y OUT) waveform becomes at 0–level.
5. Connect the oscilloscope to TP2007 (B–Y OUT) and view waveform of H block.
6. Adjust L2008 (B–Y) until the part that corresponding white and black of TP2007 (B–Y OUT) waveform becomes at 0–level.



(Before adjust) (after Adjust)

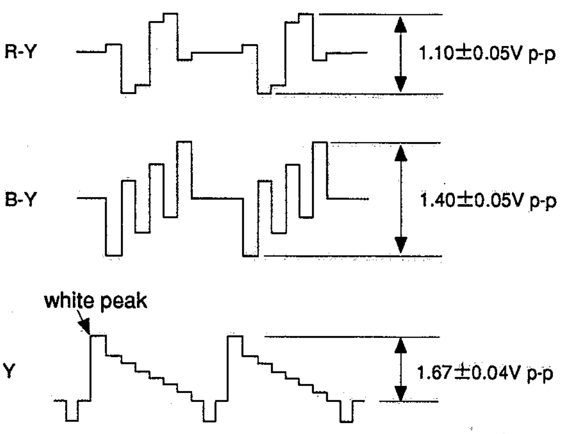
HUE CENTER Adjustment (RV2006)

1. Input NTSC color bar signal.
2. Connect the oscilloscope to TP2007 (B–Y OUT) and view waveform of H block.
3. Adjust RV2006 to become the waveform like Below.

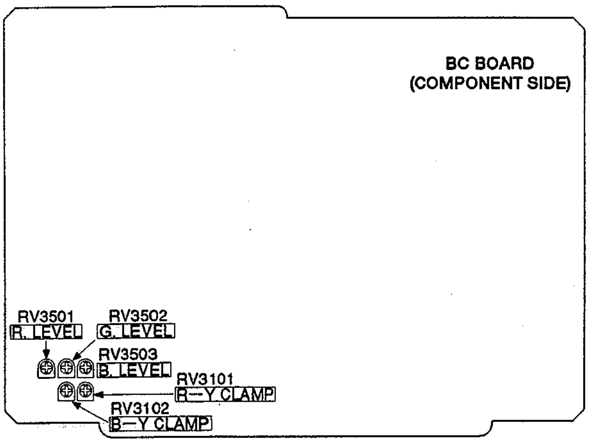


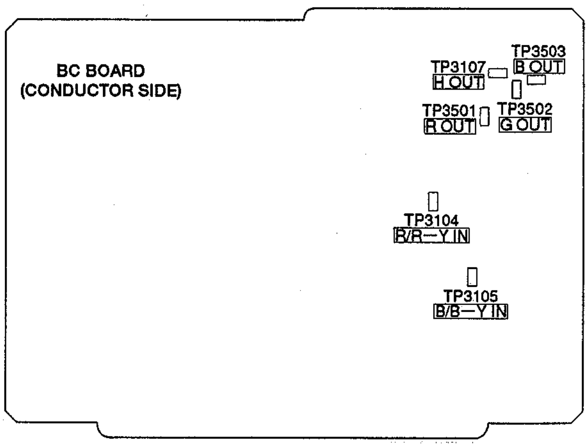
Y COLOR DIFFERENCE LEVEL Adjustment (RV2002(R–Y), RV2004(B–Y), RV2005(Y))

1. Input NTSC color bar signal. (C·B 100%, 100IRE)
2. Connect the oscilloscope to TP2006 (R–Y OUT) and adjust RV2002 to the standard value of waveform become 1.10±0.05Vp-p.
3. Connect the oscilloscope to TP2007 (B–Y OUT) and adjust RV2004 to the standard value of waveform becomes 1.40±0.05Vp-p.
4. Connect the oscilloscope to TP2005 (Y OUT) and adjust RV2005 to the standard value of waveform becomes 1.67±0.04Vp-p.


R-Y
1.10±0.05V p-p
B-Y
1.40±0.05V p-p
white peak
Y
1.67±0.04V p-p

4-3. BC BOARD ADJUSTMENTS


BC BOARD
(COMPONENT SIDE)
RV3501
R. LEVEL
RV3502
G. LEVEL
RV3503
B. LEVEL
RV3101
R–Y CLAMP
RV3102
B–Y CLAMP

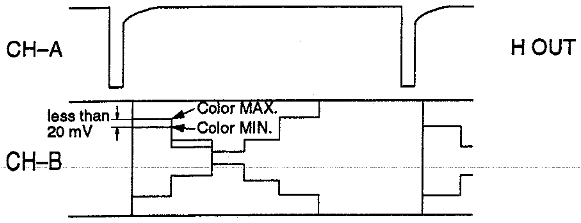

BC BOARD
(CONDUCTOR SIDE)
TP3503
B OUT
TP3107
H OUT
TP3501
R OUT
TP3502
G OUT
TP3104
B/R–Y IN
TP3105
B/B–Y IN

DC CLAMP LEVEL Adjustment

(1). R–Y CLAMP Adjustment (RV3101)

1. Input NTSC gray scale, burst off signal.
2. Connect the CH–A of oscilloscope to TP3107 (H OUT).
3. Connect the CH–B of oscilloscope to TP3501 (R OUT).
4. Set the color to minimum with the remote commander and view signal waveform at that time.
5. When set the color to maximum, adjust RV3101 to become same signal waveform like minimum state waveform.
6. Adjust RV3101 so that signal waveform fluctuation become less than 20mV when set the color to minimum or maximum.

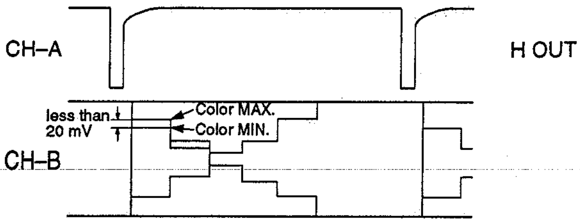
※ COL : Signal waveform would not be fluctuate even if adjust RV3101 at minimum state. Adjust RV3101 to become same signal waveform at maximum state on basis of minimum state waveform.


CH–A
H OUT
less than
20 mV
Color MAX.
Color MIN.
CH–B

(2). B–Y CLAMP Adjustment (RV3102)

1. Input NTSC gray scale, burst off signal.
2. Connect the CH–A of oscilloscope to TP3107 (H OUT).
3. Connect the CH–B of oscilloscope to TP3503 (B OUT).
4. Set the color to minimum with the remote commander and view signal waveform at that time.
5. When set the color to maximum, adjust RV3102 to become same signal waveform like minimum state waveform.
6. Adjust RV3102 so that signal waveform fluctuation become less than 20mV when set the color to minimum or maximum.

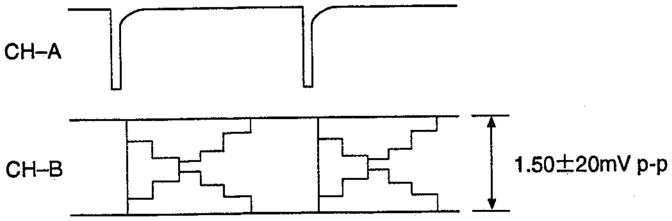
※ COL : Signal waveform would not be fluctuate even if adjust RV3102 at minimum state. Adjust RV3102 to become same signal waveform at maximum state on basis of minimum state waveform.


CH–A
H OUT
less than
20 mV
Color MAX.
Color MIN.
CH–B

D/A OUTPUT LEVEL Adjustment

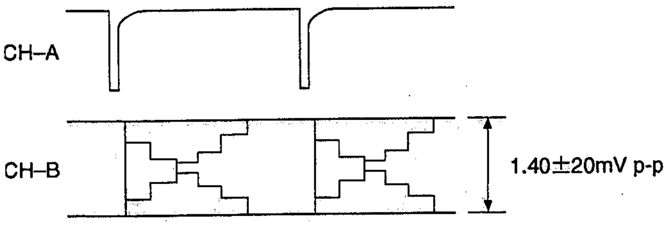
(1) R output adjustment (RV3501).

1. Input NTSC color bar signal.
2. Connect the CH–A of oscilloscope to TP3107 (H OUT).
3. Connect the CH–B of oscilloscope to TP3501 (R OUT).
4. Adjust RV3501 until the CH–B becomes 1.50±20mVp-p.



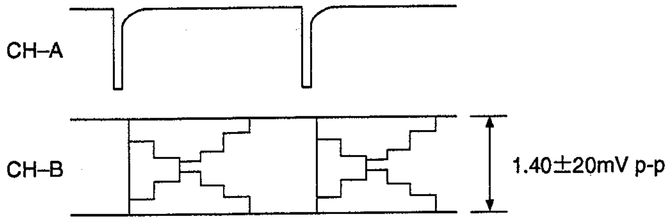
(2) G OUTPUT Adjustment (RV3502)

1. Input NTSC color bar signal.
2. Connect the CH–A of oscilloscope to TP3107 (H OUT).
3. Connect the CH–B of oscilloscope to TP3502 (G OUT).
4. Adjust RV3502 until the CH–B becomes 1.40±20mVp-p.

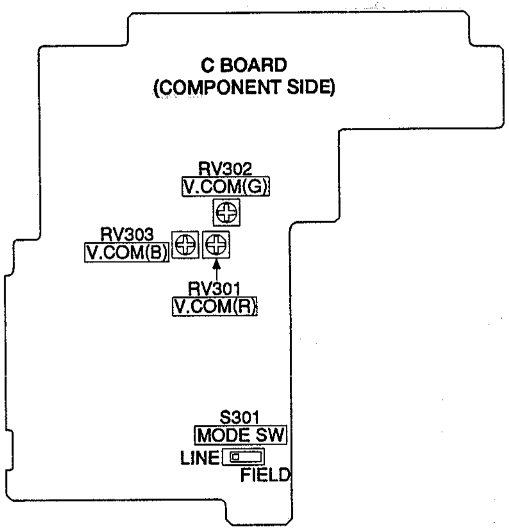


(3) B OUTPUT Adjustment (RV3503)

1. Input NTSC color bar signal.
2. Connect the CH–A of oscilloscope to TP3107 (H OUT).
3. Connect the CH–B of oscilloscope to TP3503 (B OUT).
4. Adjust RV3503 until the CH–B becomes 1.40±20mVp-p.



4-4. C BOARD ADJUSTMENTS



V. COM R Adjustment (RV301)

1. No signal.
2. Change S301 (MODE SW) to field reverse MODE.
3. Set to the SERVICE MODE with the remote commander and attain a solid red screen to press TEST key.
4. Adjust RV301 to minimize the flicker of the screen.
5. Return S301 (MODE SW) to LINE MODE.
6. Press TEST key to release a solid red screen.

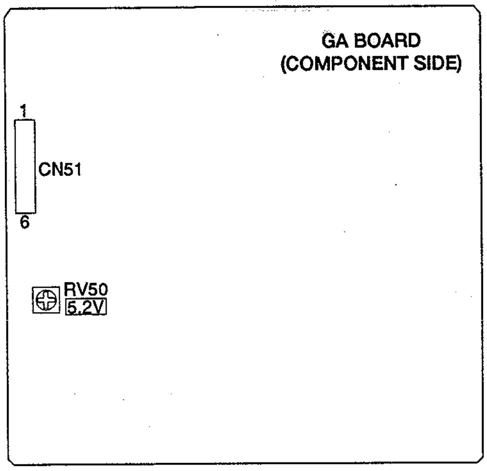
V. COM G Adjustment (RV302)

1. No signal.
2. Change S301 (MODE SW) to field reverse MODE.
3. Set to the SERVICE MODE with the remote commander and attain a solid green screen to press TEST key.
4. Adjust RV302 to minimize the flicker of the screen.
5. Return S301 (MODE SW) to LINE MODE.
6. Press TEST key to release a solid green screen.

V. COM B Adjustment (RV303)

1. No signal.
2. Change S301 (MODE SW) to field reverse MODE.
3. Set to the SERVICE MODE with the remote commander and attain a solid blue screen to press TEST key.
4. Adjust RV303 to minimize the flicker of the screen.
5. Return S301 (MODE SW) to LINE MODE.
6. Press TEST key to release a solid blue screen.

4-5. GA BOARD (SWITCHING REGULATOR) ADJUSTMENT



+5.2V Adjustment (RV50)

1. Connect the digital tester between CN51 pin① and the ground.
2. Adjust RV50 to become 5.2±0.1V

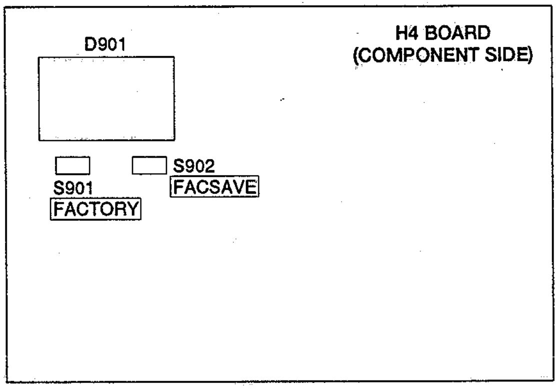
Notes for replacing the circuit power source (GA board).

(1). When replace the parts of T1 and IC50, it needs to adjust RV50.
   - ① Power on and connect the pins ①, ② and ③ (+5.2V) at CN51 to pins ④, ⑤ and ⑥ (D GND) at digital multi-meter.
   - ② Exfoliate the fixation agent on RV50 to adjust the value of digital multi-meter becomes +5.2V ± 0.15V.
   - ③ Fix RV50 with the UL approved silicone after adjustment. (Use the UL approved agent for fixation.)

(2). Mount Q10 and Q7 after from up.

(3). After due consideration the radiate, mount D10 and D116 floating.

4-6. H4 BOARD ADJUSTMENT



FACTORY Adjustment (S901)

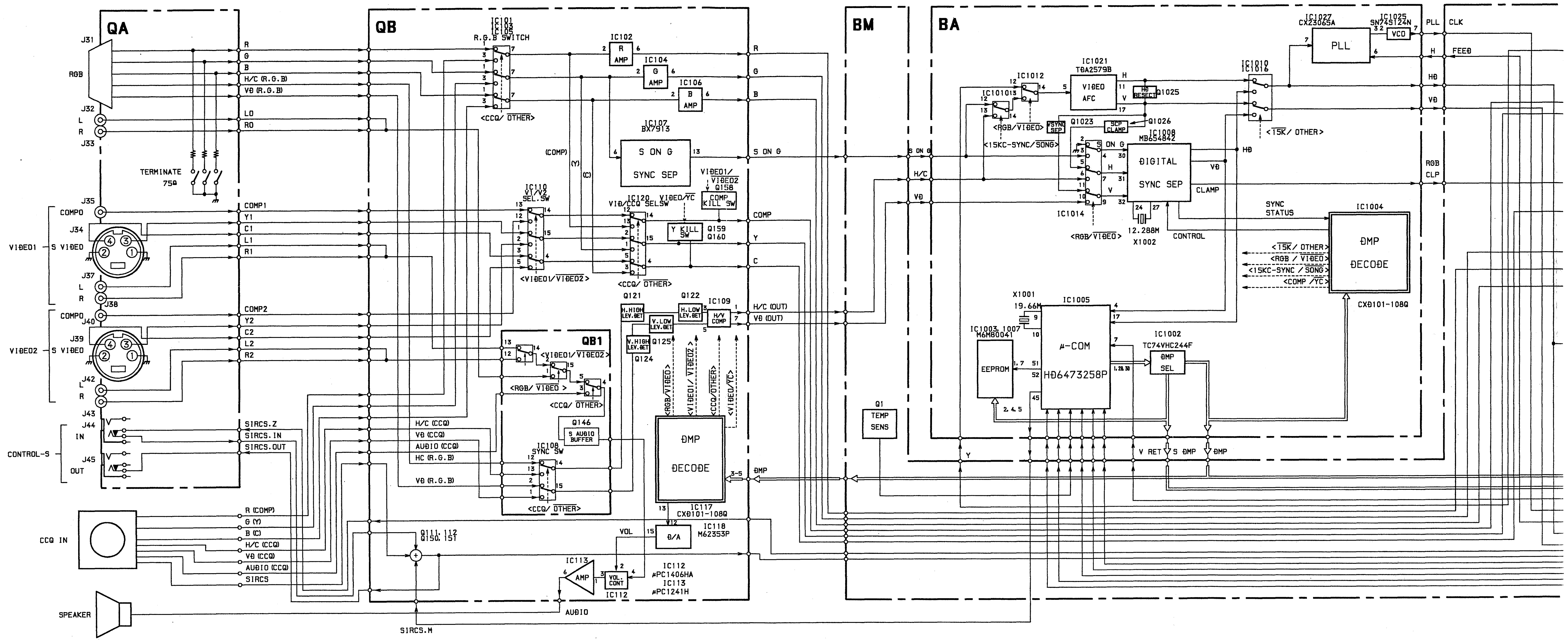
If the FACTORY switch is pressed while the main power is ON, the machine enters the FACTORY mode, disabling the cabinet sensor. (The main power can be turned ON even though the cabinet is opened and the lamp lid is unlocked. The message SERVICE will be displayed on screen.)
The FACTORY mode is canceled automatically when the main power is switched OFF.

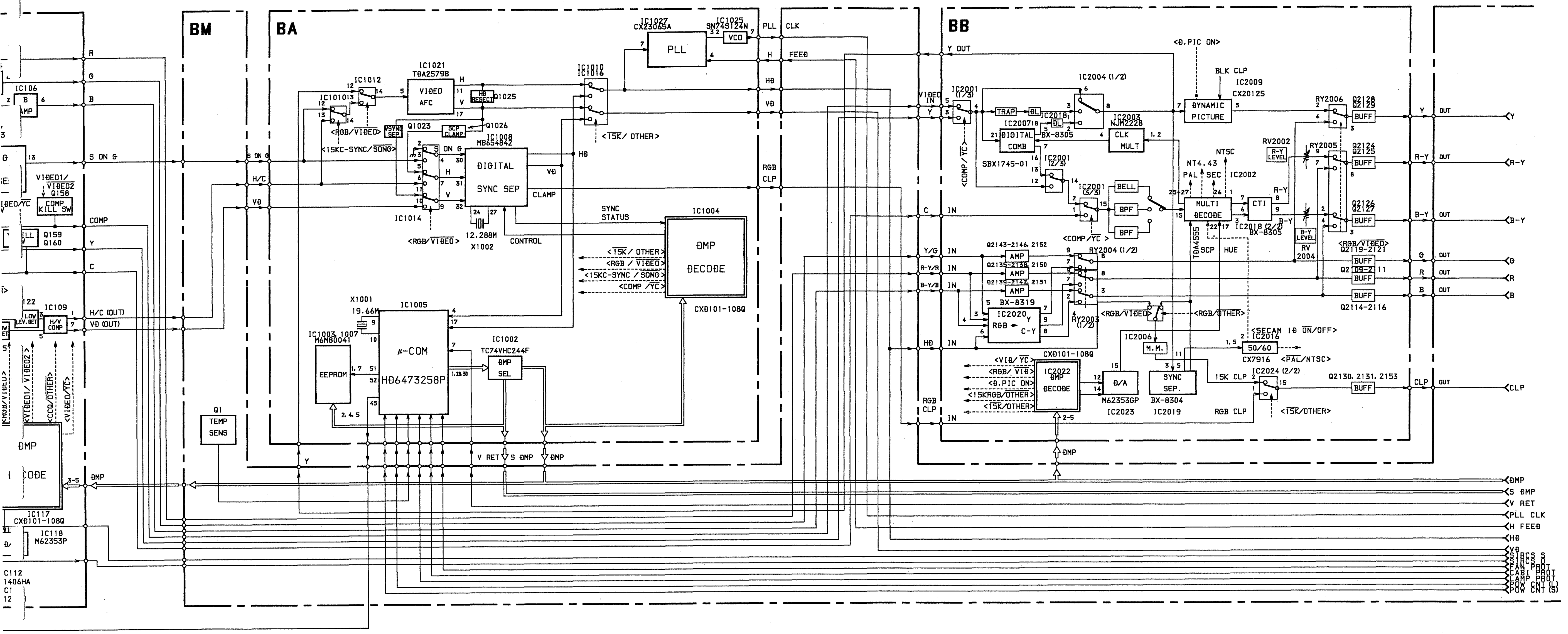
FACSAVE Adjustment (S902)

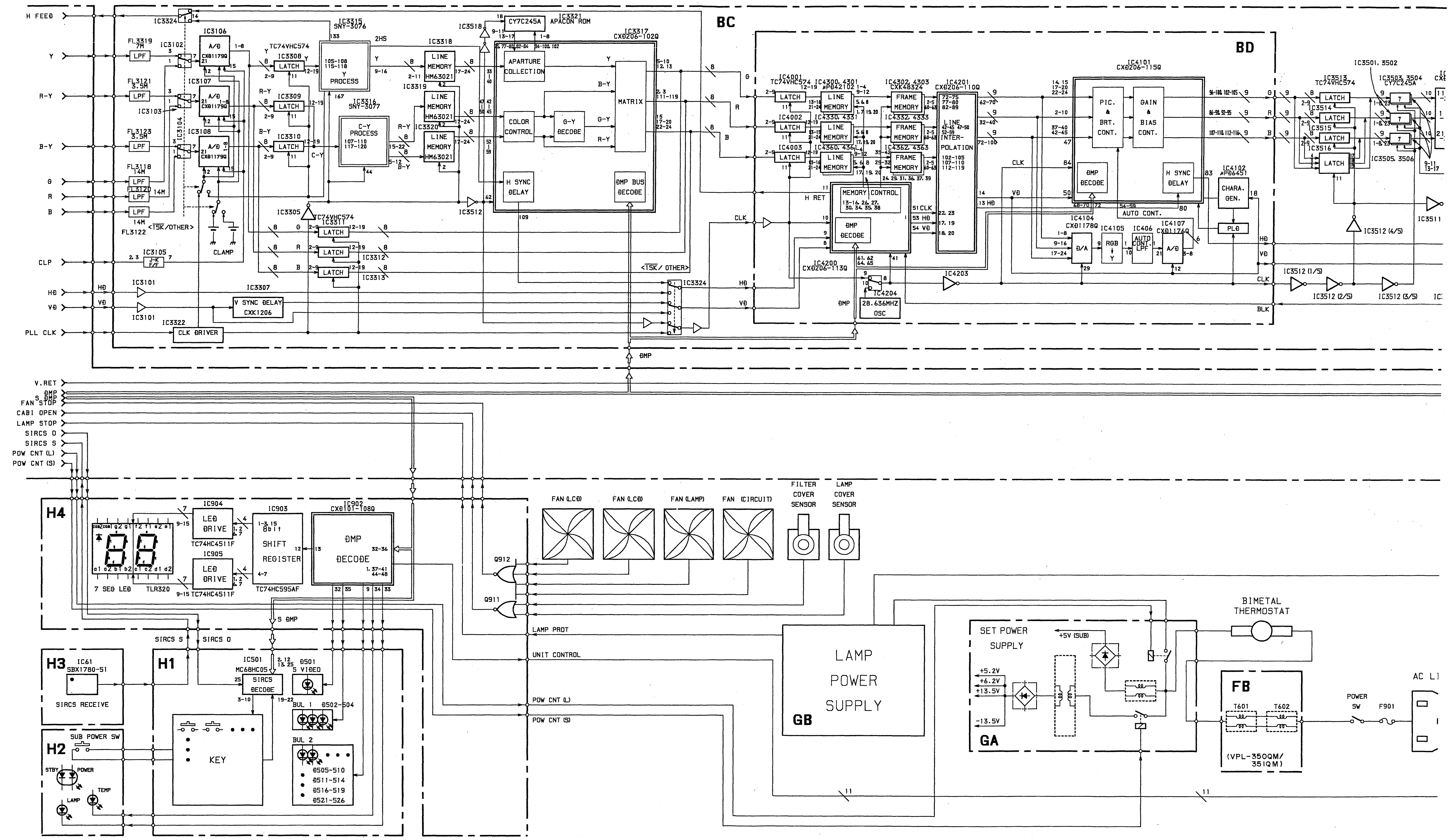
However, if this switch is pressed, the factory data is replaced.
Never press this switch during check and maintenance service.
This switch saves the white balance data into the factory area of the memory. This switch is valid only when the machine is in the FACTORY mode. This is a very dangerous switch because the white balance data is written into the factory area immediately when this switch is pressed. In a normal "maintenance staff" mode, the white balance data generated by the white balance adjustment is written into the user area alone so that the factory area is protected. Thus if the white balanced adjustment fails, the factory data can be restored if the RESET button is pressed.

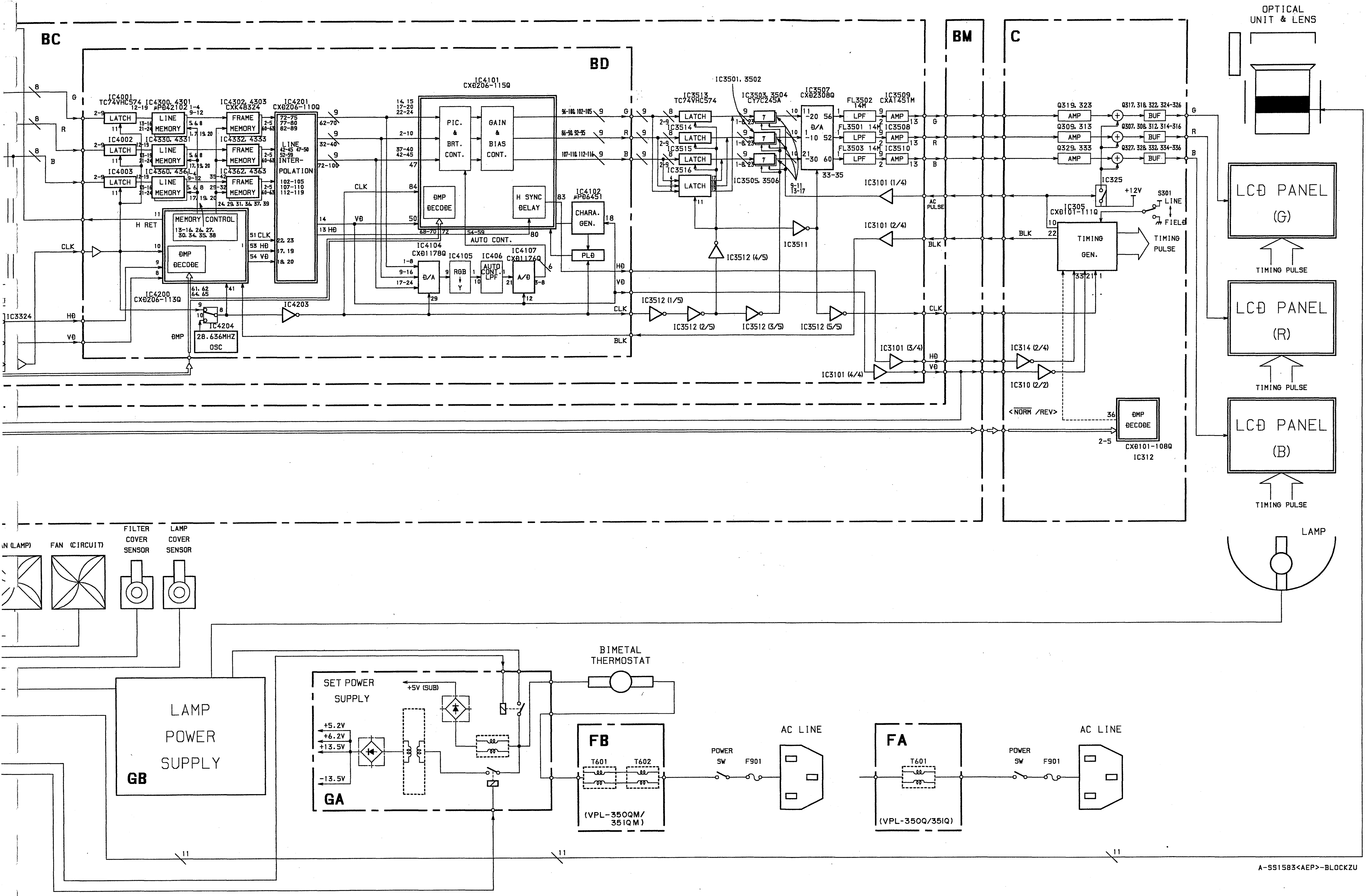
SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAMS

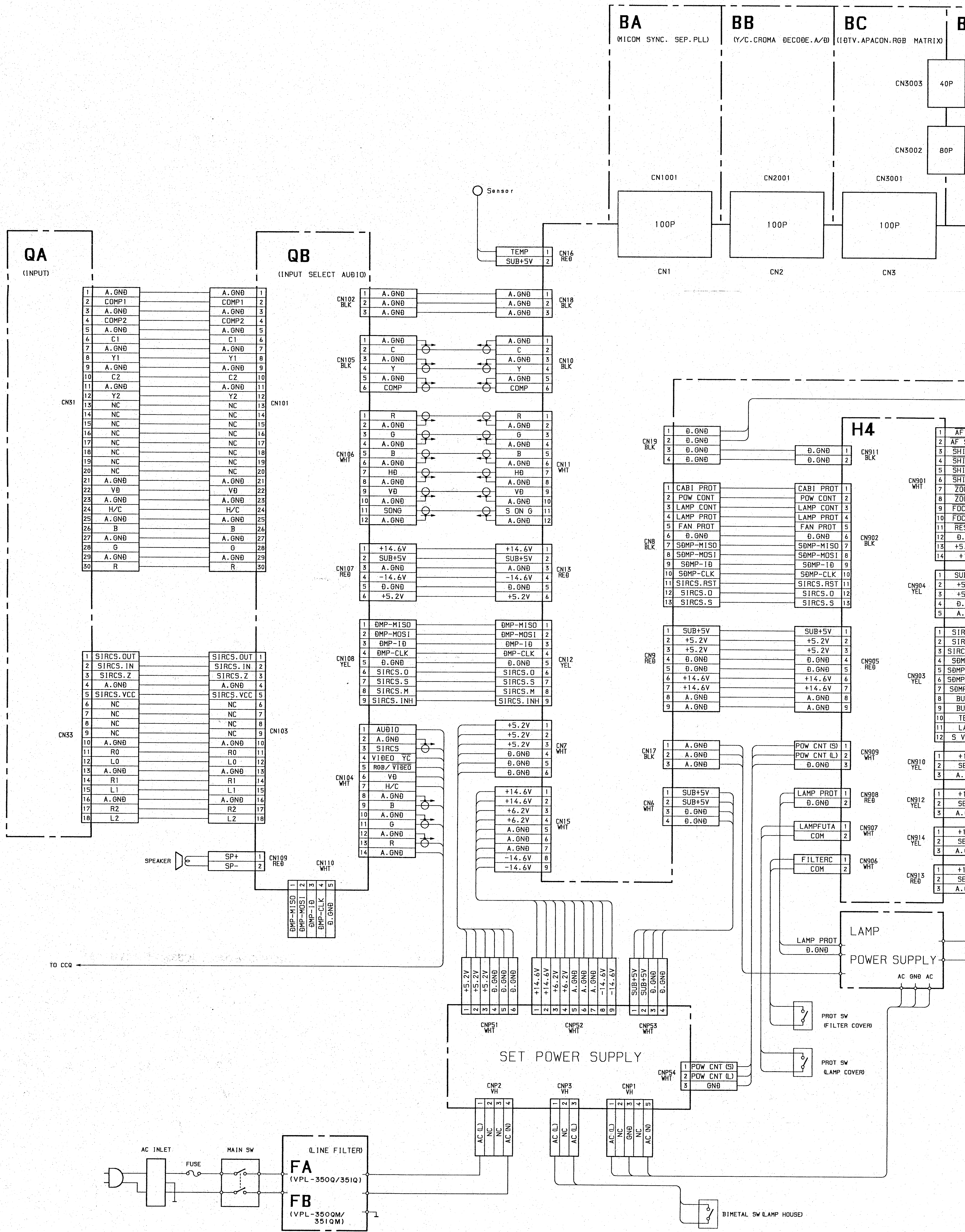

QA
QB
QB1
BM
BA
J31
RGB
J32
J33
L
R
TERMINATE 75Ω
J35
COMPO
J34
VIDEO1
S VIDEO
J37
J38
J39
J40
VIDEO2
J42
J43
J44
IN
J45
OUT
CONTROL-S
CCQ IN
SPEAKER
R
G
B
H/C (R.G.B)
VD (R.G.B)
LO
RO
COMP1
Y1
C1
L1
R1
COMP2
Y2
C2
L2
R2
SIRCS.Z
SIRCS.IN
SIRCS.OUT
R (COMP)
G (Y)
B (C)
H/C (CCQ)
VD (CCQ)
AUDIO (CCQ)
SIRCS
IC101
IC103
IC105
R.G.B SWITCH
<CCQ/OTHER>
IC102
R AMP
IC104
G AMP
IC106
B AMP
IC107
BX7913
S ON G
SYNC SEP
(COMP)
(Y)
(C)
VIDEO1/VIDEO2
Q158
COMP KILL SW
IC110
Y1/Y2 SEL.SW
<VIDEO1/VIDEO2>
IC120
VD/CCQ SELSW
VIDEO/YC
Y KILL SW
Q159
Q160
Q121
Q122
IC109
H.HIGH LEV.DET
H.LOW LEV.DET
V.LOW LEV.DET
V.HIGH LEV.DET
H/V COMP
Q125
Q124
<RGB/VIDEO>
<VIDEO1/VIDEO2>
<CCQ/OTHER>
<VIDEO/YC>
<RGB/VIDEO>
Q146
S AUDIO BUFFER
IC108
SYNC SW
H/C (CCQ)
VD (CCQ)
AUDIO (CCQ)
HC (R.G.B)
VD (R.G.B)
DMP
DECODE
IC117
CXD0101-108Q
D/A
IC118
M62353P
VOL
Q111, 112
Q150, 151
IC113
AMP
VOL. CONT
IC112
μPC1406HA
IC113
μPC1241H
AUDIO
SIRCS.M
S ON G
H/C (OUT)
VD (OUT)
COMP
Y
C
DMP
Q1
TEMP SENS
IC1012
IC1013
<RGB/VIDEO>
<15KC-SYNC/SONG>
IC1021
TDA2579B
VIDEO AFC
HD RESECT
Q1025
VSYNC SEP
Q1023
SCP CLAMP
Q1026
IC1008
MB654842
DIGITAL SYNC SEP
IC1014
12.288M
X1002
CONTROL
CLAMP
HD
VD
IC1010
IC1016
<15K/OTHER>
IC1027
CX23065A
PLL
IC1025
SN74S124N
VCO
CLK
FEED
RGB CLP
SYNC STATUS
IC1004
DMP DECODE
CXD0101-108Q
<15K/OTHER>
<RGB/VIDEO>
<15KC-SYNC/SONG>
<COMP/YC>
X1001
19.66M
IC1005
μ-COM
HD6473258P
IC1003, 1007
M6M80041
EEPROM
IC1002
TC74VHC244F
DMP SEL
V RET
S DMP
DMP


BM
BA
BB
IC106
IC1012
IC1013
IC1014
IC1021
TDA2579B
VIDEO AFC
HD RESECT
Q1025
Q1023
SCP CLAMP
Q1026
SYNC SEP
IC1008
MB654842
DIGITAL SYNC SEP
CLAMP
VD
HD
IC1027
CX23065A
PLL
IC1025
SN74S124N
VCO
IC1010
IC1016
<15K/ OTHER>
<RGB/VIDEO>
<15KC-SYNC/SONG>
12.288M
X1002
CONTROL
SYNC STATUS
IC1004
DMP DECODE
CX0101-1080
<15K/ OTHER>
<RGB / VIDEO>
<15KC-SYNC / SONG>
<COMP /YC>
X1001
19.66M
IC1005
μ-COM
HD6473258P
IC1003, 1007
M6M80041
EEPROM
IC1002
TC74VHC244F
DMP SEL
Q1
TEMP SENS
R
G
B
S ON G
VIDEO1/ VIDEO2
Q158
COMP KILL SW
Q159
Q160
COMP
Y
C
IC109
H/C (OUT)
VD (OUT)
H/V COMP
LOW LEV.DET
DMP DECODE
IC117
CX0101-1080
IC118
M62353P
IC112
1406HA
H/C
VD
Y
V RET
S DMP
DMP
PLL
CLK
H
FEED
HD
VD
RGB CLP
Y OUT
VIDEO IN
IC2001 (1/3)
IC2001 (2/3)
IC2001 (3/3)
TRAP
DL
IC2018
IC2007
DIGITAL COMB
BX-8305
SBX1745-01
IC2004 (1/2)
IC2003
NJM2228
CLK MULT
<D.PIC ON>
BLK CLP
IC2009
CX20125
DYNAMIC PICTURE
RY2006
Q2128
Q2129
BUFF
RV2002
R-Y LEVEL
RY2005
Q2124
Q2125
Q2126
Q2127
NTSC
NT4.43
PAL
SEC
IC2002
BELL
BPF
MULTI DECODE
TDA4555
CTI
IC2018 (2/2)
BX-8305
B-Y LEVEL
RV2004
SCP
HUE
<COMP/YC>
Q2143-2146, 2152
Q2135-2138, 2150
Q2139-2142, 2151
AMP
RY2004 (1/2)
Y/G IN
R-Y/R IN
B-Y/B IN
IC2020
BX-8319
RGB → Y C-Y
RY2003 (1/2)
<RGB/VIDEO>
<RGB/OTHER>
<RGB/VIDEO>
Q2119-2121
Q2109-2111
Q2114-2116
IC2006
M.M.
<SECAM ID ON/OFF>
IC2016
50/60
CX7916
<PAL/NTSC>
IC2024 (2/2)
15K CLP
Q2130, 2131, 2153
CX0101-1080
<V10/YC>
<RGB/ VID>
<D.PIC ON>
<15KRGB/OTHER>
<15K/OTHER>
IC2022
DMP DECODE
D/A
M62353GP
IC2023
SYNC SEP.
BX-8304
IC2019
RGB CLP
<15K/OTHER>
HD IN
RGB CLP IN
Y OUT
R-Y OUT
B-Y OUT
G OUT
R OUT
B OUT
CLP OUT
Y
R-Y
B-Y
G
R
B
CLP
DMP
S DMP
V RET
PLL CLK
H FEED
HD
VD
STBCS S
STBCS D
FAN PROT
CABI PROT
LAMP PROT
POW CNT (L)
POW CNT (S)

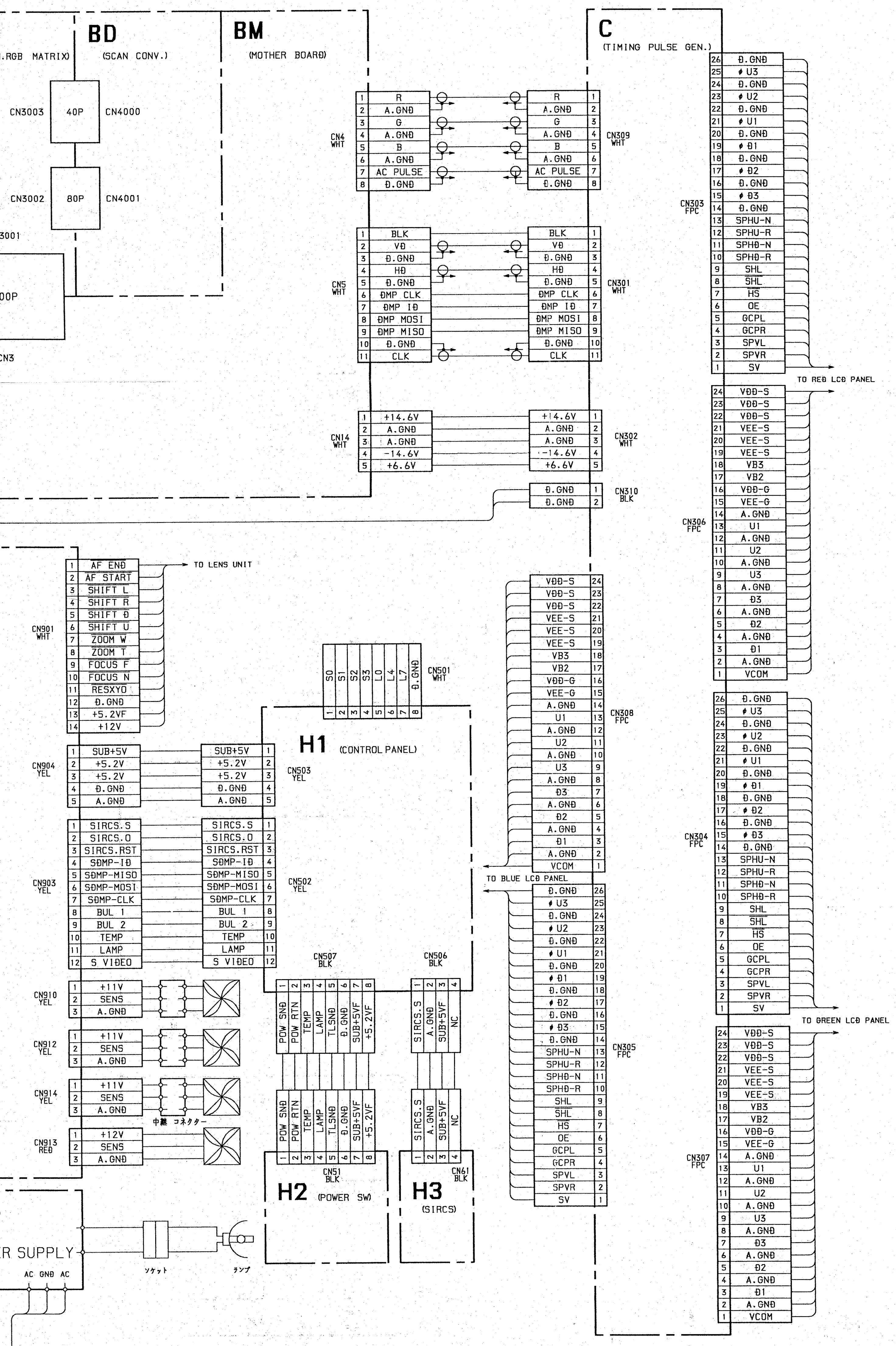

BC
BD
H FEED
Y
R-Y
B-Y
G
R
B
CLP
HD
VD
PLL CLK
FL3319 7M
FL3121 3.5M
FL3123 3.5M
FL3118 14M
FL3120 14M
FL3122 14M
LPF
IC3102
IC3103
IC3104
IC3106
IC3107
IC3108
A/D
CXD1179Q
<15K/OTHER>
CLAMP
IC3105
J-K F/F
IC3101
IC3322
CLK DRIVER
IC3307
V SYNC DELAY
CXK1206
IC3324
TC74VHC574
IC3308
IC3309
IC3310
LATCH
IC3315
SNY-3076
Y PROCESS
IC3316
SNY-3077
C-Y PROCESS
IC3318
IC3319
IC3320
LINE MEMORY
HM63021
IC3518
CY7C245A
IC3321
APACON ROM
IC3317
CXD206-102Q
APARTURE COLLECTION
COLOR CONTROL
G-Y DECODE
MATRIX
H SYNC DELAY
DMP BUS DECODE
IC3512
IC3305
TC74VHC574
IC3311
IC3312
IC3313
<15K/ OTHER>
IC4001
TC74VHC574
IC4002
IC4003
IC4300, 4301
μPD42102
IC4330, 4331
IC4360, 4361
IC4302, 4303
CXK48324
IC4332, 4333
IC4362, 4363
FRAME MEMORY
IC4201
CXD206-110Q
LINE INTER-POLATION
MEMORY CONTROL
DMP DECODE
IC4200
CXD206-113Q
IC4204
28.636MHZ OSC
IC4203
H RET
CLK
IC4101
CXD206-115Q
PIC. & BRT. CONT.
GAIN & BIAS CONT.
DMP DECODE
H SYNC DELAY
AUTO CONT.
IC4102
μPD6451
CHARA. GEN.
PLD
IC4104
CXD1178Q
D/A
IC4105
RGB Y
IC406
AUTO CONT. LPF
IC4107
CXD1176Q
A/D
IC3501, 3502
IC3513
TC74VHC574
IC3514
IC3515
IC3516
IC3503, 3504
CY7C245A
IC3505, 3506
IC3511
IC3512 (1/5)
IC3512 (2/5)
IC3512 (3/5)
IC3512 (4/5)
BLK
DMP
V.RET
DMP
S DMP
FAN STOP
CABI OPEN
LAMP STOP
SIRCS O
SIRCS S
POW CNT (L)
POW CNT (S)
H4
IC904
LED DRIVE
TC74HC4511F
IC905
7 SEG LED
TLR320
IC903
8bit SHIFT REGISTER
TC74HC595AF
IC902
CXD101-108Q
DMP DECODE
S DMP
SIRCS S
SIRCS O
H3
IC61
SBX1780-51
SIRCS RECEIVE
H1
IC501
MC68HC05
SIRCS DECODE
D501
S VIDEO
BUL 1
D502-504
BUL 2
D505-510
D511-514
D516-519
D521-526
KEY
H2
SUB POWER SW
STBY
POWER
TEMP
LAMP
Q912
Q911
FAN (LCD)
FAN (LCD)
FAN (LAMP)
FAN (CIRCUIT)
FILTER COVER SENSOR
LAMP COVER SENSOR
LAMP PROT
UNIT CONTROL
POW CNT (L)
POW CNT (S)
GB
LAMP POWER SUPPLY
GA
SET POWER SUPPLY
+5V (SUB)
+5.2V
+6.2V
+13.5V
-13.5V
BIMETAL THERMOSTAT
FB
T601
T602
(VPL-350QM/ 351QM)
POWER SW
F901
AC L


BC
BD
BM
C
OPTICAL UNIT & LENS
IC4001 TC74VHC574
IC4002
IC4003
LATCH
IC4300, 4301 μPD42102
IC4330, 4331
IC4360, 4361
LINE MEMORY
IC4302, 4303 CXK48324
IC4332, 4333
IC4362, 4363
FRAME MEMORY
IC4201 CXD2206-110Q
LINE INTER-POLATION
IC4101 CXD2206-115Q
PIC. & BRT. CONT.
GAIN & BIAS CONT.
DMP DECODE
H SYNC DELAY
AUTO CONT.
IC4102 μPD6451
CHARA. GEN.
PLD
IC4104 CXD1178Q
D/A
IC4105 RGB
IC406 AUTO CONT. LPF
IC4107 CXD1176Q
A/D
MEMORY CONTROL
DMP DECODE
IC4200 CXD2206-113Q
IC4203
IC4204
28.636MHZ OSC
H RET
CLK
HD
VD
DMP
BLK
IC3324
IC3501, 3502
IC3513 TC74VHC574
IC3514
IC3515
IC3516
IC3503, 3504 CY7C245A
IC3505, 3506
IC3507 CXD2308Q
D/A
FL3502 14M
FL3501 14M
FL3503 14M
LPF
IC3509 CXA1451M
IC3508
IC3510
AMP
IC3511
IC3512 (4/5)
IC3512 (1/5)
IC3512 (2/5)
IC3512 (3/5)
IC3512 (5/5)
IC3101 (1/4)
IC3101 (2/4)
IC3101 (3/4)
IC3101 (4/4)
AC PULSE
Q319, 323
Q309, 313
Q329, 333
Q317, 318, 322, 324-326
Q307, 308, 312, 314-316
Q327, 328, 332, 334-336
BUF
IC325
+12V
S301
LINE
FIELD
IC305 CXD101-111Q
TIMING GEN.
TIMING PULSE
IC314 (2/4)
IC310 (2/2)
<NORM /REV>
DMP DECODE
CXD101-108Q
IC312
LCD PANEL (G)
LCD PANEL (R)
LCD PANEL (B)
TIMING PULSE
LAMP
N (LAMP)
FAN (CIRCUIT)
FILTER COVER SENSOR
LAMP COVER SENSOR
LAMP POWER SUPPLY
GB
SET POWER SUPPLY
+5V (SUB)
+5.2V
+6.2V
+13.5V
-13.5V
GA
BIMETAL THERMOSTAT
FB
T601
T602
(VPL-350QM/351QM)
POWER SW
F901
AC LINE
FA
T601
(VPL-350Q/351Q)
POWER SW
F901
AC LINE
A-SS1583<AEP>-BLOCKZU

5-2. FRAME SCHEMATIC DIAGRAMS



BA
(MICOM SYNC. SEP.PLL)
BB
(Y/C.CROMA DECODE.A/D)
BC
(IDTV.APACON.RGB MATRIX)
CN1001
CN2001
CN3001
CN3002
80P
CN3003
40P
100P
CN1
CN2
CN3
Sensor
TEMP
SUB+5V
CN16 RED
QA
(INPUT)
QB
(INPUT SELECT AUDIO)
CN31
CN101
A.GND
COMP1
COMP2
C1
Y1
C2
Y2
NC
VD
H/C
B
G
R
CN33
CN103
SIRCS.OUT
SIRCS.IN
SIRCS.Z
SIRCS.VCC
R0
L0
R1
L1
R2
L2
SPEAKER
SP+
SP-
CN109 RED
CN110 WHT
DMP-MISO
DMP-MOSI
DMP-ID
DMP-CLK
D.GND
TO CCQ
CN102 BLK
CN18 BLK
CN105 BLK
CN10 BLK
C
Y
COMP
CN106 WHT
CN11 WHT
HD
SONG
S ON G
CN107 RED
CN13 RED
+14.6V
SUB+5V
-14.6V
+5.2V
CN108 YEL
CN12 YEL
SIRCS.O
SIRCS.S
SIRCS.M
SIRCS.INH
CN104 WHT
AUDIO
SIRCS
VIDEO YC
RGB/VIDEO
CN7 WHT
CN15 WHT
+6.2V
CN19 BLK
CN911 BLK
CN8 BLK
CN902 BLK
CABI PROT
POW CONT
LAMP CONT
LAMP PROT
FAN PROT
SDMP-MISO
SDMP-MOSI
SDMP-ID
SDMP-CLK
SIRCS.RST
CN9 RED
CN905 RED
CN17 BLK
CN909 WHT
POW CNT (S)
POW CNT (L)
CN6 WHT
CN908 RED
LAMPFUTA
COM
CN907 WHT
FILTERC
CN906 WHT
H4
CN901 WHT
CN904 YEL
CN903 YEL
CN910 YEL
CN912 YEL
CN914 YEL
CN913 RED
LAMP
POWER SUPPLY
AC GND AC
PROT SW
(FILTER COVER)
PROT SW
(LAMP COVER)
CNP51 WHT
CNP52 WHT
CNP53 WHT
SET POWER SUPPLY
CNP54 WHT
GND
CNP2 VH
CNP3 VH
CNP1 VH
AC (L)
AC (N)
AC INLET
FUSE
MAIN SW
(LINE FILTER)
FA
(VPL-350Q/351Q)
FB
(VPL-350QM/351QM)
BIMETAL SW (LAMP HOUSE)

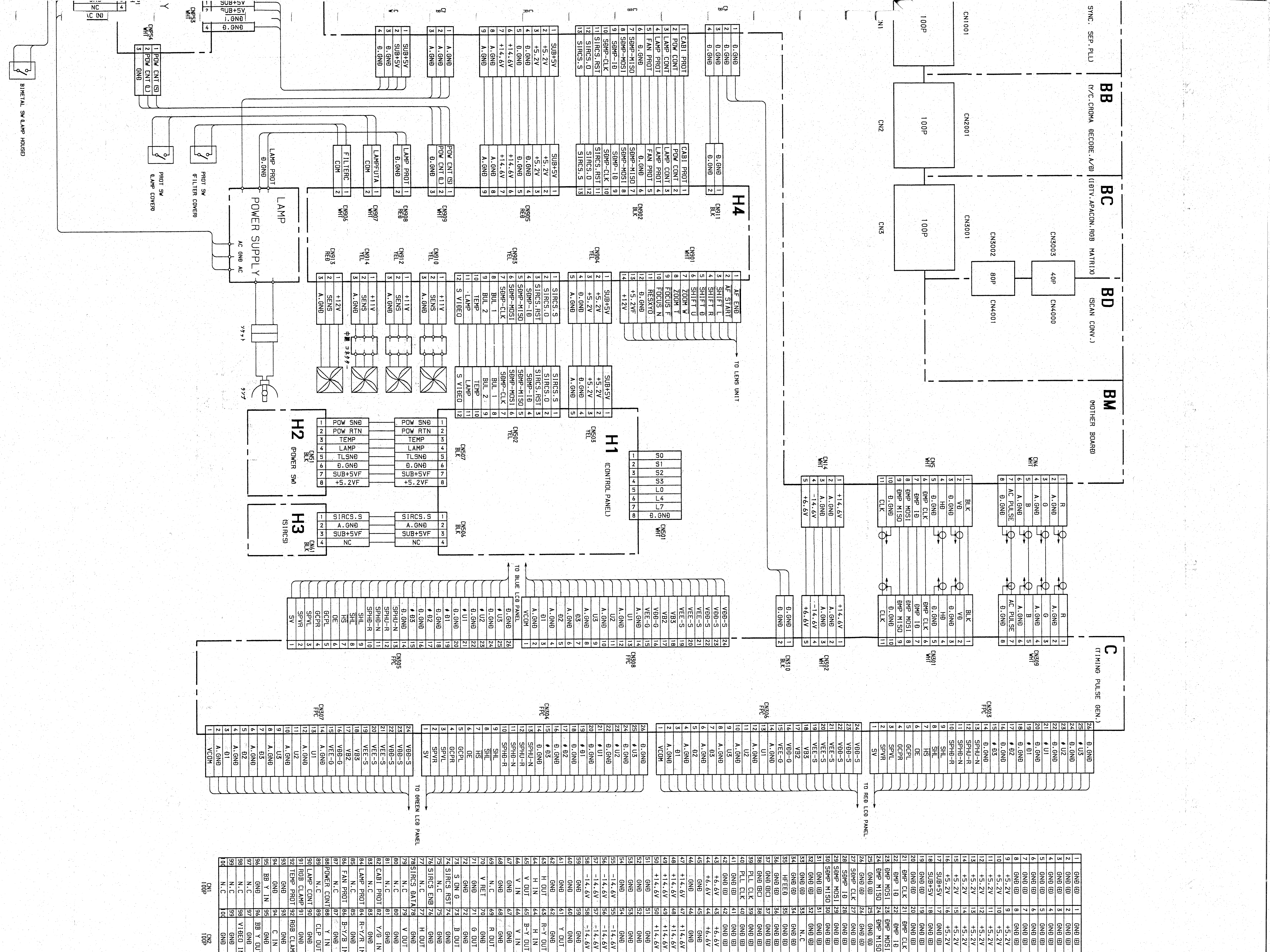

BD
(SCAN CONV.)
.RGB MATRIX)
BM
(MOTHER BOARD)
C
(TIMING PULSE GEN.)
CN3003
40P
CN4000
CN3002
80P
CN4001
CN4 WHT
CN309 WHT
CN5 WHT
CN301 WHT
CN14 WHT
CN302 WHT
CN310 BLK
CN303 FPC
CN306 FPC
CN308 FPC
CN304 FPC
CN305 FPC
CN307 FPC
TO RED LCD PANEL
TO BLUE LCD PANEL
TO GREEN LCD PANEL
TO LENS UNIT
CN901 WHT
CN904 YEL
CN903 YEL
CN503 YEL
CN502 YEL
CN501 WHT
H1
(CONTROL PANEL)
CN507 BLK
CN506 BLK
CN51 BLK
CN61 BLK
H2
(POWER SW)
H3
(SIRCS)
CN910 YEL
CN912 YEL
CN914 YEL
CN913 RED
中継 コネクター
R SUPPLY
AC GND AC
ソケット
ランプ

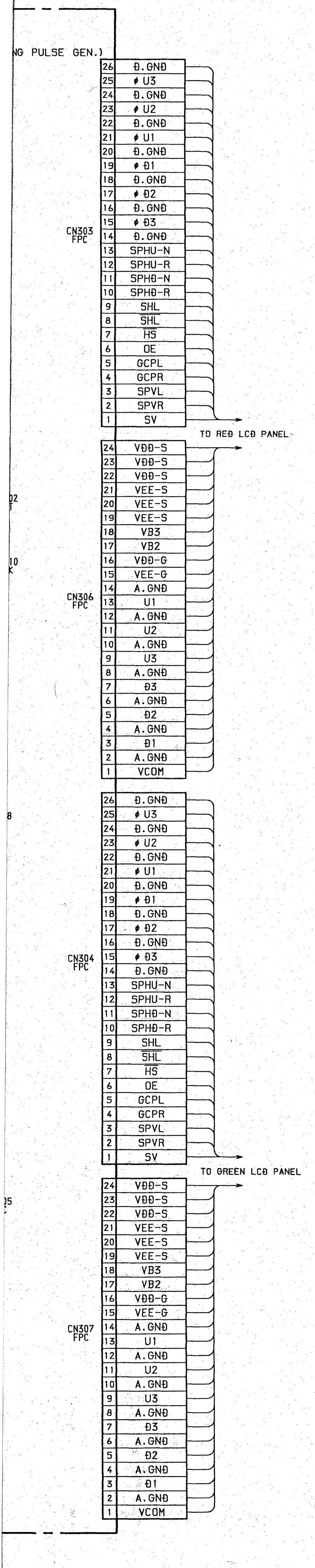
1	GND (D)	1	GND (D)	1	GND (D)
2	GND (D)	2	GND (D)	2	GND (D)
3	GND (D)	3	GND (D)	3	GND (D)
4	GND (D)	4	GND (D)	4	GND (D)
5	GND (D)	5	GND (D)	5	GND (D)
6	GND (D)	6	GND (D)	6	GND (D)
7	GND (D)	7	GND (D)	7	GND (D)
8	GND (D)	8	GND (D)	8	GND (D)
9	+5.2V	9	+5.2V	9	+5.2V
10	+5.2V	10	+5.2V	10	+5.2V
11	+5.2V	11	+5.2V	11	+5.2V
12	+5.2V	12	+5.2V	12	+5.2V
13	+5.2V	13	+5.2V	13	+5.2V
14	+5.2V	14	+5.2V	14	+5.2V
15	+5.2V	15	+5.2V	15	+5.2V
16	+5.2V	16	+5.2V	16	+5.2V
17	SUB+5V	17	GND (D)	17	GND (D)
18	SUB+5V	18	GND (D)	18	GND (D)
19	GND (D)	19	GND (D)	19	GND (D)
20	GND (D)	20	GND (D)	20	GND (D)
21	DMP CLK	21	DMP CLK	21	DMP CLK
22	DMP ID	22	DMP ID	22	DMP ID
23	DMP MOSI	23	DMP MOSI	23	DMP MOSI
24	DMP MISO	24	DMP MISO	24	DMP MISO
25	GND (D)	25	GND (D)	25	GND (D)
26	GND (D)	26	GND (D)	26	GND (D)
27	SDMP CLK	27	GND (D)	27	N.C
28	SDMP ID	28	GND (D)	28	N.C
29	SDMP MOSI	29	GND (D)	29	GND (D)
30	SDMP MISO	30	GND (D)	30	GND (D)
31	GND (D)	31	GND (D)	31	BLK
32	GND (D)	32	GND (D)	32	CLP IN
33	GND (D)	33	N.C	33	AC PULSE
34	GND (D)	34	GND (D)	34	GND (D)
35	HFEED	35	GND (D)	35	GND (D)
36	GND (D)	36	GND (D)	36	HFEED
37	GND (BC)	37	GND (D)	37	GND (BC)
38	GND (BC)	38	GND (D)	38	GND (BC)
39	PLL CLK	39	GND (D)	39	PLL CLK
40	PLL CLK	40	GND (D)	40	PLL CLK
41	GND (D)	41	GND (D)	41	GND (D)
42	GND (D)	42	GND (D)	42	GND (D)
43	+6.6V	43	+6.6V	43	+6.6V
44	+6.6V	44	+6.6V	44	+6.6V
45	GND	45	GND	45	GND
46	GND	46	GND	46	GND
47	+14.6V	47	+14.6V	47	+14.6V
48	+14.6V	48	+14.6V	48	+14.6V
49	+14.6V	49	+14.6V	49	+14.6V
50	+14.6V	50	+14.6V	50	+14.6V
51	GND	51	GND	51	GND
52	GND	52	GND	52	GND
53	GND	53	GND	53	GND
54	GND	54	GND	54	GND
55	-14.6V	55	-14.6V	55	-14.6V
56	-14.6V	56	-14.6V	56	-14.6V
57	-14.6V	57	-14.6V	57	-14.6V
58	-14.6V	58	-14.6V	58	-14.6V
59	GND	59	GND	59	GND
60	GND	60	GND	60	GND
61	GND	61	Y OUT	61	GND
62	GND	62	GND	62	Y IN
63	H OUT	63	R-Y OUT	63	GND
64	H IN	64	H IN	64	R-Y IN
65	V OUT	65	B-Y OUT	65	GND
66	V IN	66	V IN	66	B-Y IN
67	GND	67	GND	67	GND
68	GND	68	GND	68	GND
69	N.C	69	R OUT	69	GND
70	V RET	70	GND	70	R IN
71	GND	71	G OUT	71	GND
72	GND	72	GND	72	G IN
73	S ON G	73	B OUT	73	GND
74	SIRCS RST	74	GND	74	B IN
75	N.C	75	GND	75	GND
76	SIRCS ENB	76	GND	76	GND
77	N.C	77	H OUT	77	GND
78	SIRCS DATA	78	GND	78	H IN
79	N.C	79	V OUT	79	GND
80	N.C	80	GND	80	V IN
81	N.C	81	GND	81	GND
82	CABI PROT	82	Y/G IN	82	GND
83	N.C	83	GND	83	R OUT
84	LAMP PROT	84	R-Y/R IN	84	GND
85	N.C	85	GND	85	G OUT
86	FAN PROT	86	B-Y/B IN	86	GND
87	N.C	87	GND	87	B OUT
88	POWER CONT	88	Y IN	88	GND
89	N.C	89	CLP OUT	89	GND
90	LAMP CONT	90	GND	90	GND
91	RGB CLAMP	91	GND	91	V OUT
92	TEMP PROT	92	RGB CLAMP	92	GND
93	GND	93	GND	93	H OUT
94	GND	94	C IN	94	GND
95	BB Y IN	95	GND	95	GND (D)
96	GND	96	BB Y OUT	96	GND (D)
97	N.C	97	GND	97	CLK OUT
98	N.C	98	VIDEO IN	98	CLK OUT
99	N.C	99	GND	99	GND (D)
100	N.C	100	GND	100	GND (D)

CN1 100P
CN2 100P
CN3 100P

1	A.12V	1	CLK IN
2	A.12V	2	CLK IN
3	A.12V	3	GND (D)
4	A.12V	4	GND (D)
5	A.5V	5	G0 IN
6	A.5V	6	G1 IN
7	A.5V	7	G2 IN
8	A.5V	8	G3 IN
9	GND (A)	9	G4 IN
10	GND (A)	10	G5 IN
11	GND (A)	11	G6 IN
12	GND (A)	12	G7 IN
13	GND (A)	13	G8 IN
14	GND (A)	14	GND (D)
15	H IN	15	R0 IN
16	V IN	16	R1 IN
17	GND (D)	17	R2 IN
18	GND (D)	18	R3 IN
19	H FEED	19	R4 IN
20	GND (D)	20	R5 IN
21	BLK	21	R6 IN
22	N.C	22	R7 IN
23	H OUT	23	R8 IN
24	V OUT	24	GND (D)
25	GND (D)	25	B0 IN
26	GND (D)	26	B1 IN
27	GND (D)	27	B2 IN
28	GND (D)	28	B3 IN
29	GND (D)	29	B4 IN
30	GND (D)	30	B5 IN
31	GND (D)	31	B6 IN
32	GND (D)	32	B7 IN
33	+5.2V	33	B8 IN
34	+5.2V	34	GND (D)
35	+5.2V	35	GND (D)
36	+5.2V	36	GND (D)
37	+5.2V	37	G0 OUT
38	+5.2V	38	G1 OUT
39	+5.2V	39	G2 OUT
40	+5.2V	40	G3 OUT
		41	G4 OUT
		42	G5 OUT
		43	G6 OUT
		44	G7 OUT
		45	G8 OUT
		46	GND (D)
		47	R0 OUT
		48	R1 OUT
		49	R2 OUT
		50	R3 OUT
		51	R4 OUT
		52	R5 OUT
		53	R6 OUT
		54	R7 OUT
		55	R8 OUT
		56	GND (D)
		57	B0 OUT
		58	B1 OUT
		59	B2 OUT
		60	B3 OUT
		61	B4 OUT
		62	B5 OUT
		63	B6 OUT
		64	B7 OUT
		65	B8 OUT
		66	GND (D)
		67	GND (D)
		68	GND (D)
		69	GND (D)
		70	GND (D)
		71	CLK OUT
		72	CLK OUT
		73	GND (D)
		74	GND (D)
		75	N.C
		76	N.C
		77	DMP CLK
		78	DMP ID
		79	DMP MOSI
		80	DMP MISO

CN4000 40P
CN4001 80P

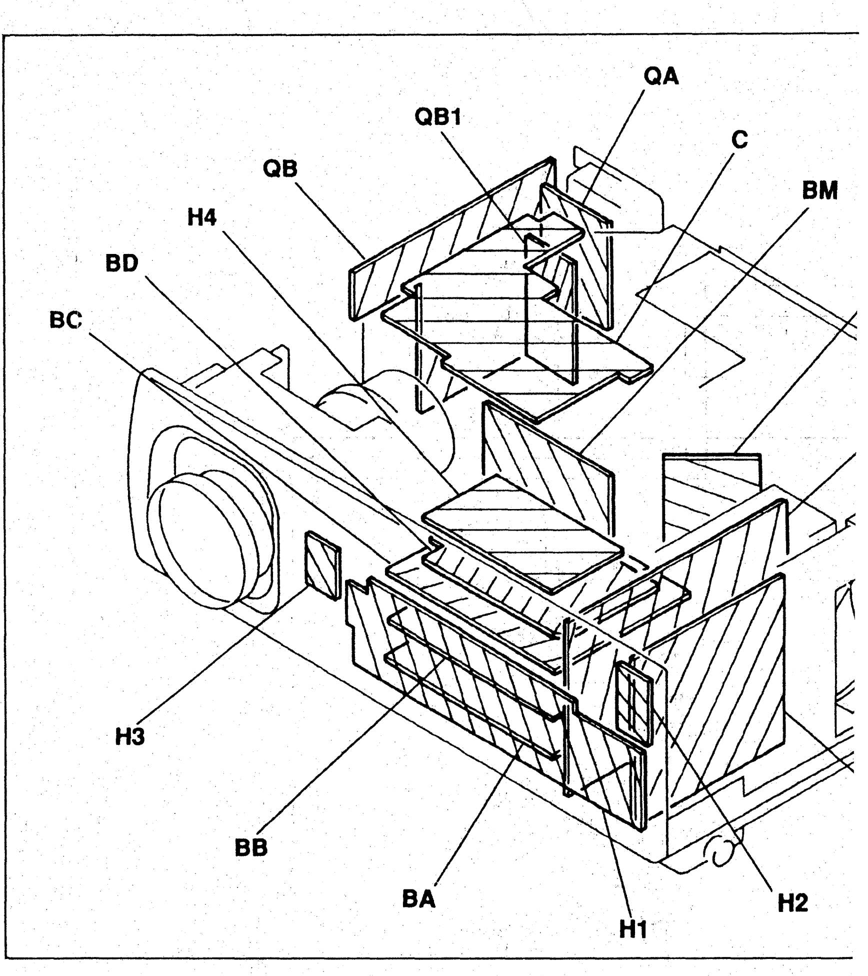

BB (Y/C.CROMA DECODE.A/D)
BC (IDTV.APACON.RGB MATRIX)
BD (SCAN CONV.)
BM (MOTHER BOARD)
C (TIMING PULSE GEN.)
H1 (CONTROL PANEL)
H2 (POWER SW)
H3 (SIRCS)
H4
LAMP POWER SUPPLY
BIMETAL SW (LAMP HOUSE)
PROT SW (LAMP COVER)
PROT SW (FILTER COVER)
TO LENS UNIT
TO BLUE LCD PANEL
TO GREEN LCD PANEL
TO RED LCD PANEL
SYNC. SEP. PLL
CN1001 100P
CN2001 100P
CN3001 100P
CN3002 80P
CN3003 40P
CN4000
CN4001
CN1 100P
CN2 100P


NG PULSE GEN.)
CN303 FPC
26 D.GND
25 ϕ U3
24 D.GND
23 ϕ U2
22 D.GND
21 ϕ U1
20 D.GND
19 ϕ D1
18 D.GND
17 ϕ D2
16 D.GND
15 ϕ D3
14 D.GND
13 SPHU-N
12 SPHU-R
11 SPHD-N
10 SPHD-R
9 SHL
8 $\overline{\mathrm{SHL}}$
7 $\overline{\mathrm{HS}}$
6 OE
5 GCPL
4 GCPR
3 SPVL
2 SPVR
1 SV
TO RED LCD PANEL
CN306 FPC
24 VDD-S
23 VDD-S
22 VDD-S
21 VEE-S
20 VEE-S
19 VEE-S
18 VB3
17 VB2
16 VDD-G
15 VEE-G
14 A.GND
13 U1
12 A.GND
11 U2
10 A.GND
9 U3
8 A.GND
7 D3
6 A.GND
5 D2
4 A.GND
3 D1
2 A.GND
1 VCOM
CN304 FPC
26 D.GND
25 ϕ U3
24 D.GND
23 ϕ U2
22 D.GND
21 ϕ U1
20 D.GND
19 ϕ D1
18 D.GND
17 ϕ D2
16 D.GND
15 ϕ D3
14 D.GND
13 SPHU-N
12 SPHU-R
11 SPHD-N
10 SPHD-R
9 SHL
8 $\overline{\mathrm{SHL}}$
7 $\overline{\mathrm{HS}}$
6 OE
5 GCPL
4 GCPR
3 SPVL
2 SPVR
1 SV
TO GREEN LCD PANEL
CN307 FPC
24 VDD-S
23 VDD-S
22 VDD-S
21 VEE-S
20 VEE-S
19 VEE-S
18 VB3
17 VB2
16 VDD-G
15 VEE-G
14 A.GND
13 U1
12 A.GND
11 U2
10 A.GND
9 U3
8 A.GND
7 D3
6 A.GND
5 D2
4 A.GND
3 D1
2 A.GND
1 VCOM

	CN1 100P		CN2 100P		CN3 100P
1	GND (D)	1	GND (D)	1	GND (D)
2	GND (D)	2	GND (D)	2	GND (D)
3	GND (D)	3	GND (D)	3	GND (D)
4	GND (D)	4	GND (D)	4	GND (D)
5	GND (D)	5	GND (D)	5	GND (D)
6	GND (D)	6	GND (D)	6	GND (D)
7	GND (D)	7	GND (D)	7	GND (D)
8	GND (D)	8	GND (D)	8	GND (D)
9	+5.2V	9	+5.2V	9	+5.2V
10	+5.2V	10	+5.2V	10	+5.2V
11	+5.2V	11	+5.2V	11	+5.2V
12	+5.2V	12	+5.2V	12	+5.2V
13	+5.2V	13	+5.2V	13	+5.2V
14	+5.2V	14	+5.2V	14	+5.2V
15	+5.2V	15	+5.2V	15	+5.2V
16	+5.2V	16	+5.2V	16	+5.2V
17	SUB+5V	17	GND (D)	17	GND (D)
18	SUB+5V	18	GND (D)	18	GND (D)
19	GND (D)	19	GND (D)	19	GND (D)
20	GND (D)	20	GND (D)	20	GND (D)
21	DMP CLK	21	DMP CLK	21	DMP CLK
22	DMP ID	22	DMP ID	22	DMP ID
23	DMP MOSI	23	DMP MOSI	23	DMP MOSI
24	DMP MISO	24	DMP MISO	24	DMP MISO
25	GND (D)	25	GND (D)	25	GND (D)
26	GND (D)	26	GND (D)	26	GND (D)
27	SDMP CLK	27	GND (D)	27	N.C
28	SDMP ID	28	GND (D)	28	N.C
29	SDMP MOSI	29	GND (D)	29	GND (D)
30	SDMP MISO	30	GND (D)	30	GND (D)
31	GND (D)	31	GND (D)	31	BLK
32	GND (D)	32	GND (D)	32	CLP IN
33	GND (D)	33	N.C	33	AC PULSE
34	GND (D)	34	GND (D)	34	GND (D)
35	HFEED	35	GND (D)	35	GND (D)
36	GND (D)	36	GND (D)	36	HFEED
37	GND (BC)	37	GND (D)	37	GND (BC)
38	GND (BC)	38	GND (D)	38	GND (BC)
39	PLL CLK	39	GND (D)	39	PLL CLK
40	PLL CLK	40	GND (D)	40	PLL CLK
41	GND (D)	41	GND (D)	41	GND (D)
42	GND (D)	42	GND (D)	42	GND (D)
43	+6.6V	43	+6.6V	43	+6.6V
44	+6.6V	44	+6.6V	44	+6.6V
45	GND	45	GND	45	GND
46	GND	46	GND	46	GND
47	+14.6V	47	+14.6V	47	+14.6V
48	+14.6V	48	+14.6V	48	+14.6V
49	+14.6V	49	+14.6V	49	+14.6V
50	+14.6V	50	+14.6V	50	+14.6V
51	GND	51	GND	51	GND
52	GND	52	GND	52	GND
53	GND	53	GND	53	GND
54	GND	54	GND	54	GND
55	-14.6V	55	-14.6V	55	-14.6V
56	-14.6V	56	-14.6V	56	-14.6V
57	-14.6V	57	-14.6V	57	-14.6V
58	-14.6V	58	-14.6V	58	-14.6V
59	GND	59	GND	59	GND
60	GND	60	GND	60	GND
61	GND	61	Y OUT	61	GND
62	GND	62	GND	62	Y IN
63	H OUT	63	R-Y OUT	63	GND
64	H IN	64	H IN	64	R-Y IN
65	V OUT	65	B-Y OUT	65	GND
66	V IN	66	V IN	66	B-Y IN
67	GND	67	GND	67	GND
68	GND	68	GND	68	GND
69	N.C	69	R OUT	69	GND
70	V RET	70	GND	70	R IN
71	GND	71	G OUT	71	GND
72	GND	72	GND	72	G IN
73	S ON G	73	B OUT	73	GND
74	SIRCS RST	74	GND	74	B IN
75	N.C	75	GND	75	GND
76	SIRCS ENB	76	GND	76	GND
77	N.C	77	H OUT	77	GND
78	SIRCS DATA	78	GND	78	H IN
79	N.C	79	V OUT	79	GND
80	N.C	80	GND	80	V IN
81	N.C	81	GND	81	GND
82	CABI PROT	82	Y/G IN	82	GND
83	N.C	83	GND	83	R OUT
84	LAMP PROT	84	R-Y/R IN	84	GND
85	N.C	85	GND	85	G OUT
86	FAN PROT	86	B-Y/B IN	86	GND
87	N.C	87	GND	87	B OUT
88	POWER CONT	88	Y IN	88	GND
89	N.C	89	CLP OUT	89	GND
90	LAMP CONT	90	GND	90	GND
91	RGB CLAMP	91	GND	91	V OUT
92	TEMP PROT	92	RGB CLAMP	92	GND
93	GND	93	GND	93	H OUT
94	GND	94	C IN	94	GND
95	BB Y IN	95	GND	95	GND (D)
96	GND	96	BB Y OUT	96	GND (D)
97	N.C	97	GND	97	CLK OUT
98	N.C	98	VIDEO IN	98	CLK OUT
99	N.C	99	GND	99	GND (D)
100	N.C	100	GND	100	GND (D)

	CN4000 40P		CN4001 80P
1	A.12V	1	CLK IN
2	A.12V	2	CLK IN
3	A.12V	3	GND (D)
4	A.12V	4	GND (D)
5	A.5V	5	G0 IN
6	A.5V	6	G1 IN
7	A.5V	7	G2 IN
8	A.5V	8	G3 IN
9	GND (A)	9	G4 IN
10	GND (A)	10	G5 IN
11	GND (A)	11	G6 IN
12	GND (A)	12	G7 IN
13	GND (A)	13	G8 IN
14	GND (A)	14	GND (D)
15	H IN	15	R0 IN
16	V IN	16	R1 IN
17	GND (D)	17	R2 IN
18	GND (D)	18	R3 IN
19	H FEED	19	R4 IN
20	GND (D)	20	R5 IN
21	BLK	21	R6 IN
22	N.C	22	R7 IN
23	H OUT	23	R8 IN
24	V OUT	24	GND (D)
25	GND (D)	25	B0 IN
26	GND (D)	26	B1 IN
27	GND (D)	27	B2 IN
28	GND (D)	28	B3 IN
29	GND (D)	29	B4 IN
30	GND (D)	30	B5 IN
31	GND (D)	31	B6 IN
32	GND (D)	32	B7 IN
33	+5.2V	33	B8 IN
34	+5.2V	34	GND (D)
35	+5.2V	35	GND (D)
36	+5.2V	36	GND (D)
37	+5.2V	37	G0 OUT
38	+5.2V	38	G1 OUT
39	+5.2V	39	G2 OUT
40	+5.2V	40	G3 OUT
		41	G4 OUT
		42	G5 OUT
		43	G6 OUT
		44	G7 OUT
		45	G8 OUT
		46	GND (D)
		47	R0 OUT
		48	R1 OUT
		49	R2 OUT
		50	R3 OUT
		51	R4 OUT
		52	R5 OUT
		53	R6 OUT
		54	R7 OUT
		55	R8 OUT
		56	GND (D)
		57	B0 OUT
		58	B1 OUT
		59	B2 OUT
		60	B3 OUT
		61	B4 OUT
		62	B5 OUT
		63	B6 OUT
		64	B7 OUT
		65	B8 OUT
		66	GND (D)
		67	GND (D)
		68	GND (D)
		69	GND (D)
		70	GND (D)
		71	CLK OUT
		72	CLK OUT
		73	GND (D)
		74	GND (D)
		75	N.C
		76	N.C
		77	DMP CLK
		78	DMP ID
		79	DMP MOSI
		80	DMP MISO

5-3. CIRCUIT BOARDS LOCATION


QA
QB1
C
QB
BM
H4
BD
BC
H3
BB
BA
H1
H2

5-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics.
- All electrolytics are in 50V unless otherwise specified.
- All resistors are in ohms, 1/4W in resistance, 1/10W in chip resistance.
  kΩ=1000Ω, MΩ=1000kΩ
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- ▭ : panel designation and adjustment for repair.
- All variable and adjustable resistors have charactristic curve B, unless otherwise noted.

- Voltage and wave form value is the reference value between it and the earth, when NTSC 3.58 color bar signal is received from color bar generator (digital multi-meter used : 10M ohms/V DC).
- Unit of voltage values is V (volt)
- ✱ : Measurement disabled.
- ━ : B+ line
- ▪▪▪ : B− line
  (Actual measured value may be different).
- Circled numbers are waveform references.
- ➡ Signal path.

Reference information

RESISTOR	: RN
	: RC
	: FP
	: FU
	: RS
	: RB
	: RV
	: ※
COIL	: LF
CAPACITOR	: TA
	: PS
	: PF
	: PT
	: MI
	: MI
	: AL
	: AL
	: AL

1	GND (D)
2	GND (D)
3	GND (D)
4	GND (D)
5	GND (D)
6	GND (D)
7	GND (D)
8	GND (D)
9	+5.2V
10	+5.2V
11	+5.2V
12	+5.2V
13	+5.2V
14	+5.2V
15	+5.2V
16	+5.2V
17	GND (D)
18	GND (D)
19	GND (D)
20	GND (D)
21	DMP CLK
22	DMP ID
23	DMP MOSI
24	DMP MISO
25	GND (D)
26	GND (D)
27	N.C
28	N.C
29	GND (D)
30	GND (D)
31	BLK
32	CLP IN
33	AC PULSE
34	GND (D)
35	GND (D)
36	HFEED
37	GND (BC)
38	GND (BC)
39	PLL CLK
40	PLL CLK
41	GND (D)
42	GND (D)
43	+6.6V
44	+6.6V
45	GND
46	GND
47	+14.6V
48	+14.6V
49	+14.6V
50	+14.6V
51	GND
52	GND
53	GND
54	GND
55	-14.6V
56	-14.6V
57	-14.6V
58	-14.6V
59	GND
60	GND
61	GND
62	Y IN
63	GND
64	R-Y IN
65	GND
66	B-Y IN
67	GND
68	GND
69	GND
70	R IN
71	GND
72	G IN
73	GND
74	B IN
75	GND
76	GND
77	GND
78	H IN
79	GND
80	V IN
81	GND
82	GND
83	R OUT
84	GND
85	G OUT
86	GND
87	B OUT
88	GND
89	GND
90	GND
91	V OUT
92	GND
93	H OUT
94	GND
95	GND (D)
96	GND (D)
97	CLK OUT
98	CLK OUT
99	GND (D)
100	GND (D)

CN3
100P

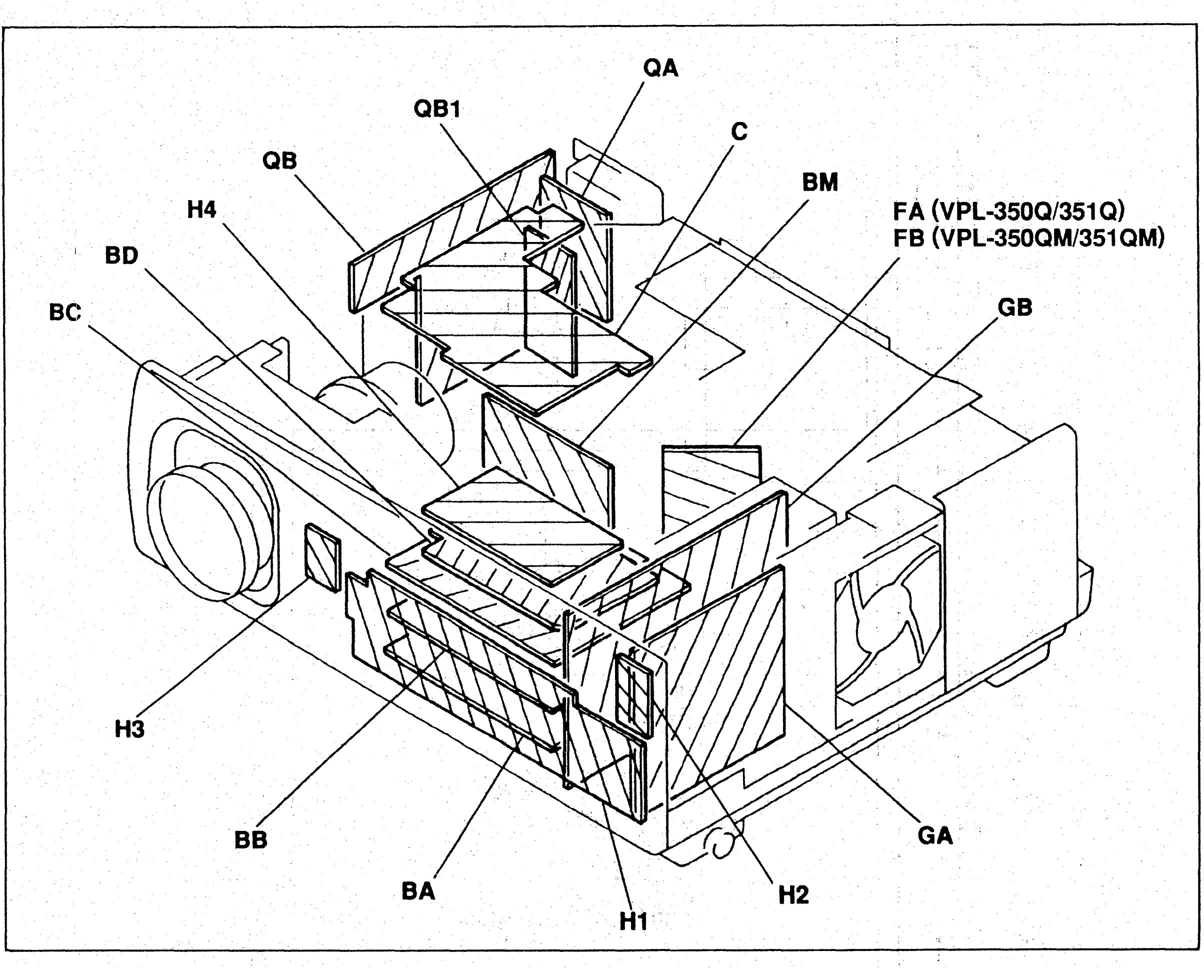
1	A.12V
2	A.12V
3	A.12V
4	A.12V
5	A.5V
6	A.5V
7	A.5V
8	A.5V
9	GND (A)
10	GND (A)
11	GND (A)
12	GND (A)
13	GND (A)
14	GND (A)
15	H IN
16	V IN
17	GND (D)
18	GND (D)
19	H FEED
20	GND (D)
21	BLK
22	N.C
23	H OUT
24	V OUT
25	GND (D)
26	GND (D)
27	GND (D)
28	GND (D)
29	GND (D)
30	GND (D)
31	GND (D)
32	GND (D)
33	+5.2V
34	+5.2V
35	+5.2V
36	+5.2V
37	+5.2V
38	+5.2V
39	+5.2V
40	+5.2V

CN4000
40P

1	CLK IN
2	CLK IN
3	GND (D)
4	GND (D)
5	G0 IN
6	G1 IN
7	G2 IN
8	G3 IN
9	G4 IN
10	G5 IN
11	G6 IN
12	G7 IN
13	G8 IN
14	GND (D)
15	R0 IN
16	R1 IN
17	R2 IN
18	R3 IN
19	R4 IN
20	R5 IN
21	R6 IN
22	R7 IN
23	R8 IN
24	GND (D)
25	B0 IN
26	B1 IN
27	B2 IN
28	B3 IN
29	B4 IN
30	B5 IN
31	B6 IN
32	B7 IN
33	B8 IN
34	GND (D)
35	GND (D)
36	GND (D)
37	G0 OUT
38	G1 OUT
39	G2 OUT
40	G3 OUT
41	G4 OUT
42	G5 OUT
43	G6 OUT
44	G7 OUT
45	G8 OUT
46	GND (D)
47	R0 OUT
48	R1 OUT
49	R2 OUT
50	R3 OUT
51	R4 OUT
52	R5 OUT
53	R6 OUT
54	R7 OUT
55	R8 OUT
56	GND (D)
57	B0 OUT
58	B1 OUT
59	B2 OUT
60	B3 OUT
61	B4 OUT
62	B5 OUT
63	B6 OUT
64	B7 OUT
65	B8 OUT
66	GND (D)
67	GND (D)
68	GND (D)
69	GND (D)
70	GND (D)
71	CLK OUT
72	CLK OUT
73	GND (D)
74	GND (D)
75	N.C
76	N.C
77	DMP CLK
78	DMP ID
79	DMP MOSI
80	DMP MISO

CN4001
80P

5-3. CIRCUIT BOARDS LOCATION



5-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics.
- All electrolytics are in 50V unless otherwise specified.
- All resistors are in ohms, 1/4W in resistance, 1/10W in chip resistance.
  kΩ=1000Ω, MΩ=1000kΩ
- : nonflammable resistor.
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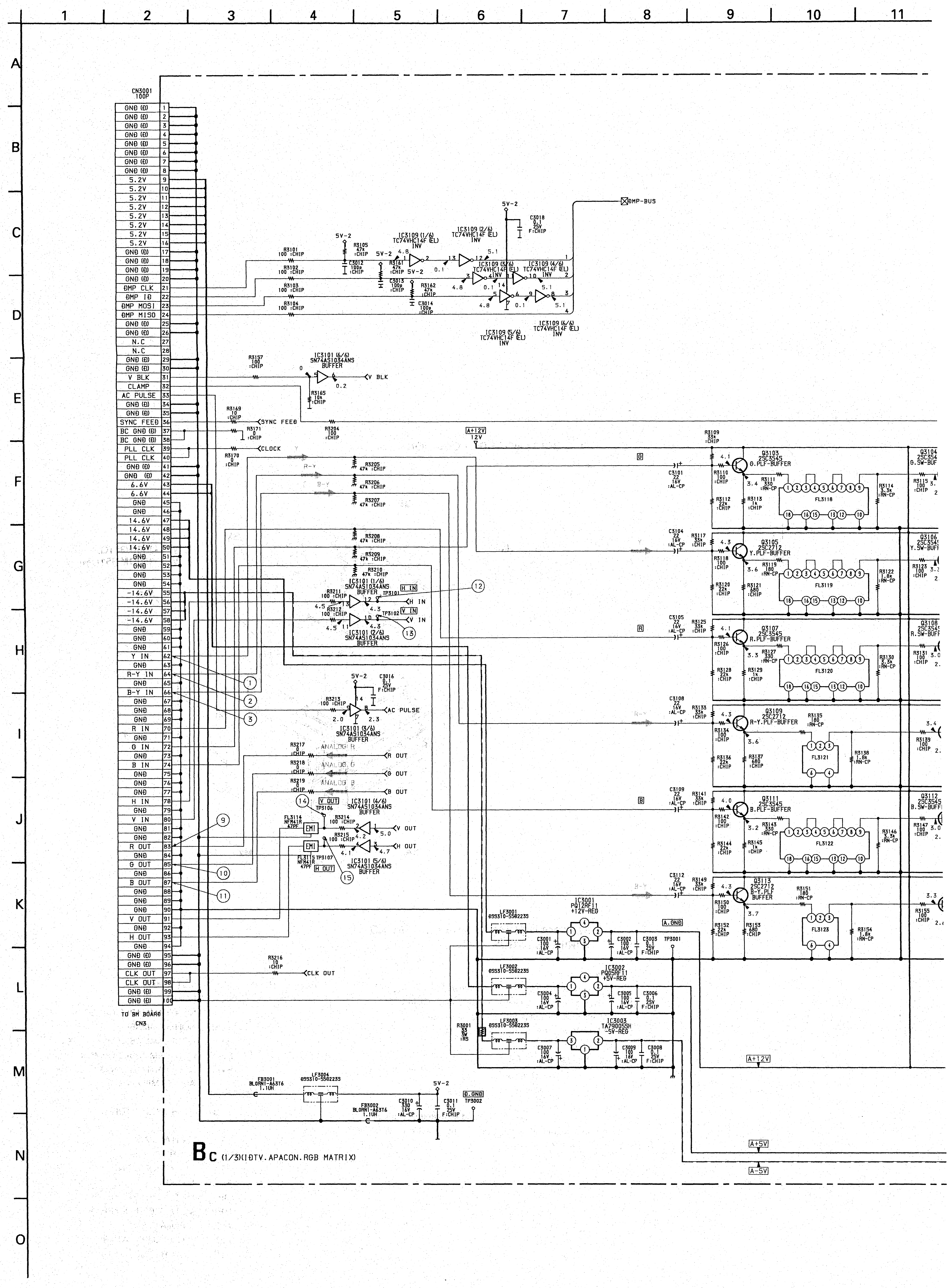
- △ : internal component.
- □ : panel designation and adjustment for repair.
- All variable and adjustable resistors have charactristic curve B, unless otherwise noted.

- Voltage and wave form value is the reference value between it and the earth, when NTSC 3.58 color bar signal is received from color bar generator (digital multi-meter used : 10M ohms/V DC).
- Unit of voltage values is V (volt)
- ✳ : Measurement disabled.
- ▬ : B+ line
- ■ ■ ■ : B− line
  (Actual measured value may be different).
- Circled numbers are waveform references.
- ➡ Signal path.

Reference information

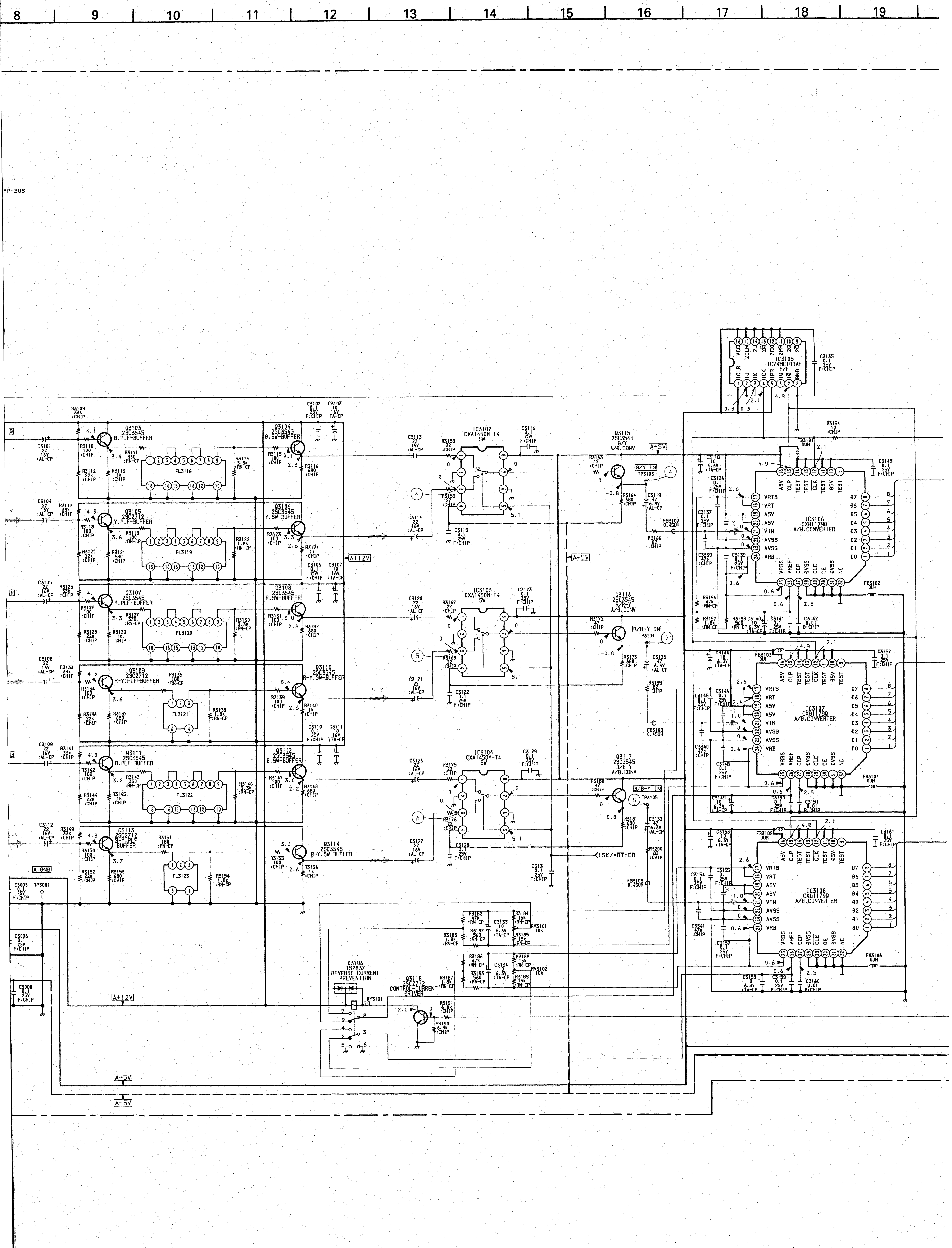
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: ※	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

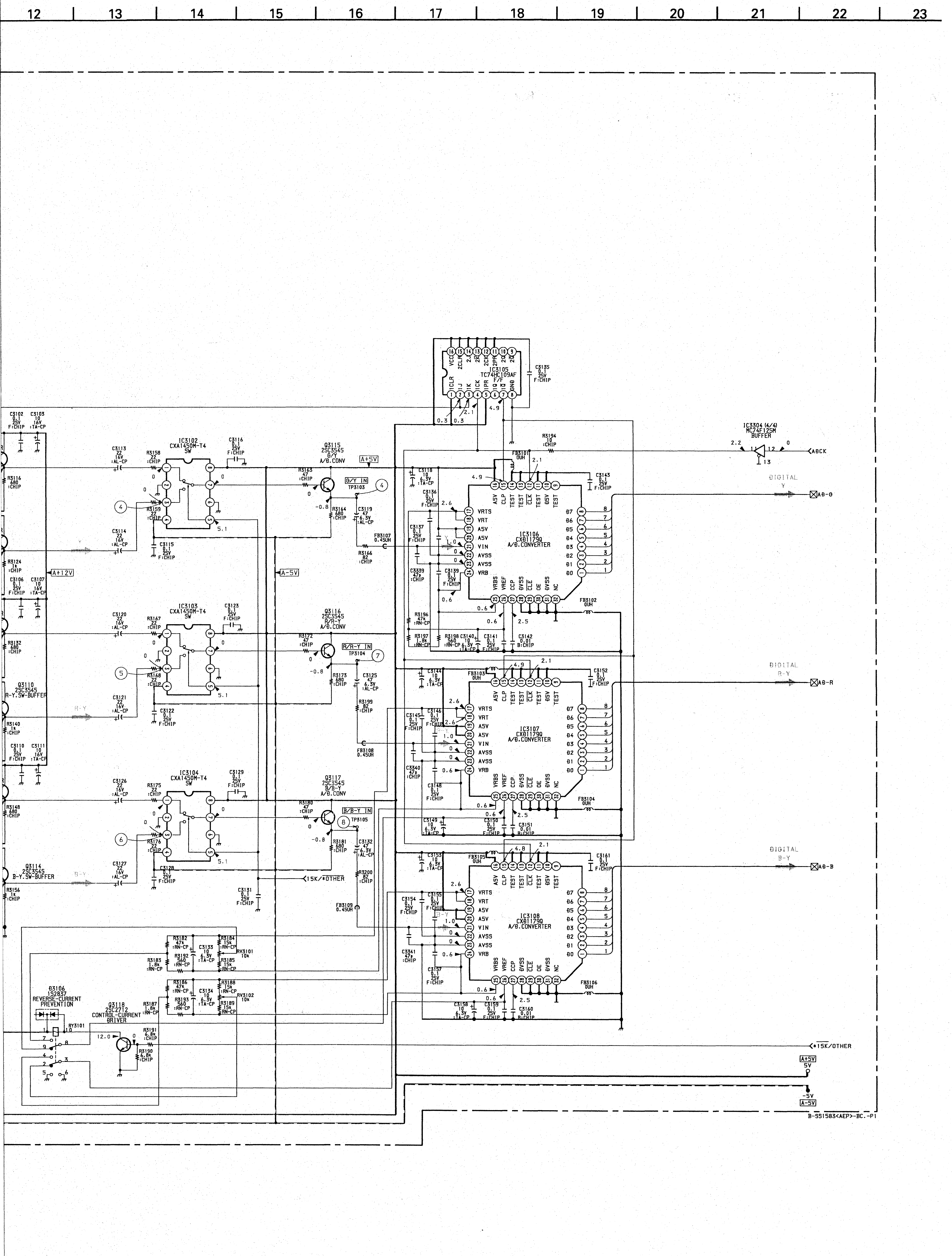


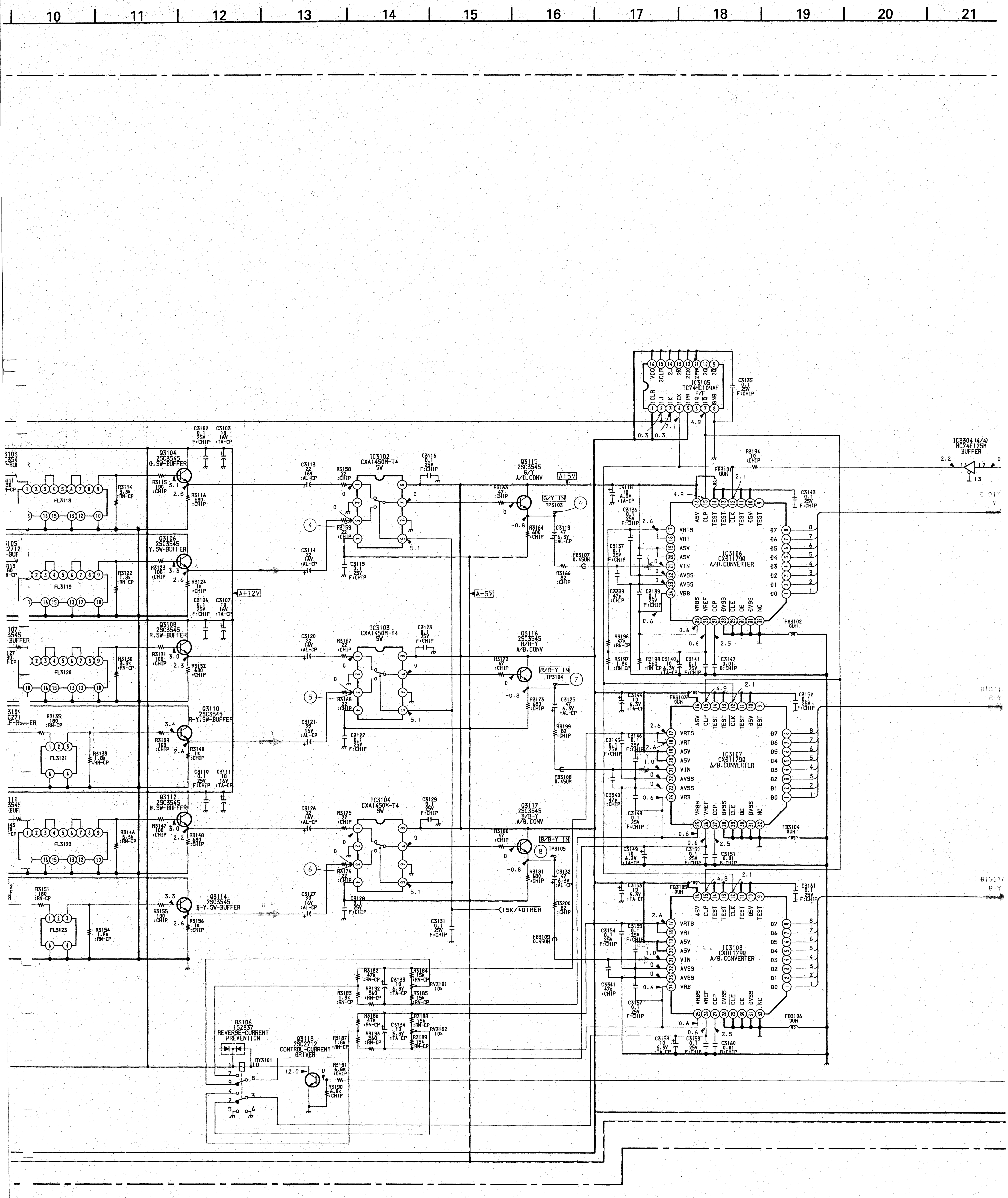
B C (1/3)(IDTV.APACON.RGB MATRIX)
CN3001 100P
TO BM BOARD CN3
ĐMP-BUS
IC3109 (1/6) TC74VHC14F (EL) INV
IC3109 (2/6) TC74VHC14F (EL) INV
IC3109 (3/6) TC74VHC14F (EL) INV
IC3109 (4/6) TC74VHC14F (EL) INV
IC3109 (5/6) TC74VHC14F (EL) INV
IC3109 (6/6) TC74VHC14F (EL) INV
IC3101 (1/6) SN74AS1034ANS BUFFER
IC3101 (2/6) SN74AS1034ANS BUFFER
IC3101 (3/6) SN74AS1034ANS BUFFER
IC3101 (4/6) SN74AS1034ANS BUFFER
IC3101 (5/6) SN74AS1034ANS BUFFER
IC3101 (6/6) SN74AS1034ANS BUFFER
V BLK
SYNC FEED
CLOCK
H IN
V IN
AC PULSE
R OUT
G OUT
B OUT
V OUT
H OUT
CLK OUT
ANALOG R
ANALOG G
ANALOG B
IC3001 PQ12RF11 +12V-REG
IC3002 PQ05RF11 +5V-REG
IC3003 TA79005SH -5V-REG
Q3103 2SC3545 G.PLF-BUFFER
Q3105 2SC2712 Y.PLF-BUFFER
Q3107 2SC3545 R.PLF-BUFFER
Q3109 2SC2712 R-Y.PLF-BUFFER
Q3111 2SC3545 B.PLF-BUFFER
Q3113 2SC2712 B-Y.PLF BUFFER
FL3118
FL3119
FL3120
FL3121
FL3122
FL3123
A+12V
A+5V
A-5V
A.GND
B.GND
5V-2

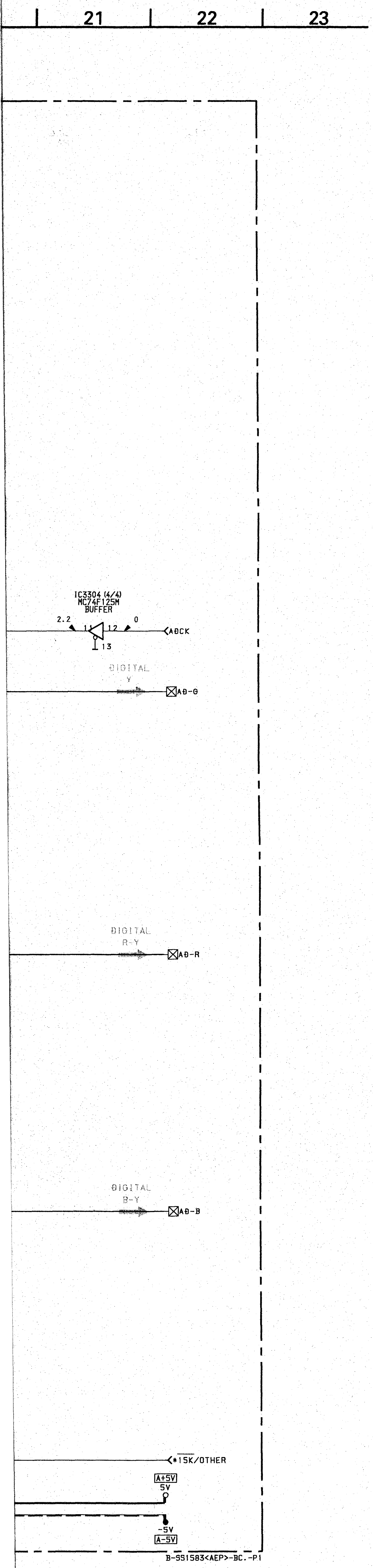
Schematic diagram

B C (1/3) board ➡

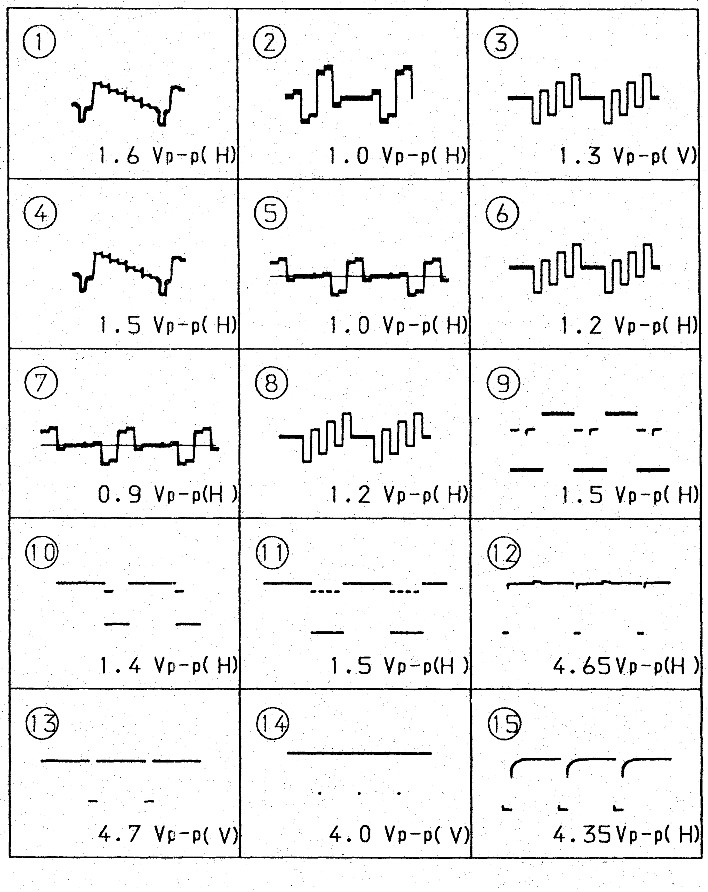

MP-BUS
Q3103 2SC3545 G.PLF-BUFFER
Q3104 2SC3545 G.SW-BUFFER
Q3105 2SC2712 Y.PLF-BUFFER
Q3106 2SC3545 Y.SW-BUFFER
Q3107 2SC3545 R.PLF-BUFFER
Q3108 2SC3545 R.SW-BUFFER
Q3109 2SC2712 R-Y.PLF-BUFFER
Q3110 2SC3545 R-Y.SW-BUFFER
Q3111 2SC3545 B.PLF-BUFFER
Q3112 2SC3545 B.SW-BUFFER
Q3113 2SC2712 B-Y.PLF BUFFER
Q3114 2SC3545 B-Y.SW-BUFFER
FL3118
FL3119
FL3120
FL3121
FL3122
FL3123
IC3102 CXA1450M-T4 SW
IC3103 CXA1450M-T4 SW
IC3104 CXA1450M-T4 SW
Q3115 2SC3545 G/Y A/D.CONV
Q3116 2SC3545 R/R-Y A/D.CONV
Q3117 2SC3545 B/B-Y A/D.CONV
G/Y IN
TP3103
R/R-Y IN
TP3104
B/B-Y IN
TP3105
15K/*OTHER
IC3105 TC74HC109AF F/F
IC3106 CXD1179Q A/D.CONVERTER
IC3107 CXD1179Q A/D.CONVERTER
IC3108 CXD1179Q A/D.CONVERTER
Q3106 1S2837 REVERSE-CURRENT PREVENTION
Q3118 2SC2712 CONTROL-CURRENT DRIVER
RY3101
RV3101 10k
RV3102 10k
A+12V
A+5V
A-5V
A.GND
TP3001
8
9
10
11
12
13
14
15
16
17
18
19


12
13
14
15
16
17
18
19
20
21
22
23
IC3102 CXA1450M-T4 SW
IC3103 CXA1450M-T4 SW
IC3104 CXA1450M-T4 SW
Q3115 2SC3545 G/Y A/D.CONV
Q3116 2SC3545 R/R-Y A/D.CONV
Q3117 2SC3545 B/B-Y A/D.CONV
Q3110 2SC3545 R-Y.SW-BUFFER
Q3114 2SC3545 B-Y.SW-BUFFER
Q3118 2SC2712 CONTROL-CURRENT DRIVER
D3106 1S2837 REVERSE-CURRENT PREVENTION
RY3101
IC3105 TC74HC109AF F/F
IC3106 CX81179Q A/D.CONVERTER
IC3107 CX81179Q A/D.CONVERTER
IC3108 CX81179Q A/D.CONVERTER
IC3304 (4/4) MC74F125M BUFFER
A+12V
A+5V
A-5V
G/Y IN
R/R-Y IN
B/B-Y IN
TP3103
TP3104
TP3105
15K/OTHER
DIGITAL Y
DIGITAL R-Y
DIGITAL B-Y
AD-G
AD-R
AD-B
ADCK
+15K/OTHER
A+5V 5V
-5V A-5V
B-S91583<AEP>-BC.-P1

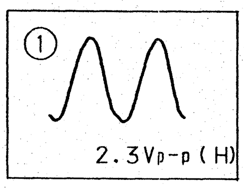

10
11
12
13
14
15
16
17
18
19
20
21
Q3104 2SC3545 G.SW-BUFFER
Q3106 2SC3545 Y.SW-BUFFER
Q3108 2SC3545 R.SW-BUFFER
Q3110 2SC3545 R-Y.SW-BUFFER
Q3112 2SC3545 B.SW-BUFFER
Q3114 2SC3545 B-Y.SW-BUFFER
FL3118
FL3119
FL3120
FL3121
FL3122
FL3123
A+12V
A-5V
A+5V
IC3102 CXA1450M-T4 SW
IC3103 CXA1450M-T4 SW
IC3104 CXA1450M-T4 SW
Q3115 2SC3545 G/Y A/D.CONV
Q3116 2SC3545 R/R-Y A/D.CONV
Q3117 2SC3545 B/B-Y A/D.CONV
G/Y IN TP3103
R/R-Y IN TP3104
B/B-Y IN TP3105
15K/OTHER
IC3105 TC74HC109AF F/F
ICLR
1J
1K
1CK
1PR
1Q
1Q
GND
VCC
2CLR
2J
2K
2CK
2PR
2Q
2Q
IC3106 CXD1179Q A/D.CONVERTER
IC3107 CXD1179Q A/D.CONVERTER
IC3108 CXD1179Q A/D.CONVERTER
VRTS
VRT
A5V
VIN
AVSS
VRB
VRBS
VREF
CCP
DVSS
CLE
OE
NC
CLP
TEST
CLK
D5V
D0
D1
D2
D3
D4
D5
D6
D7
IC3304 (4/4) MC74F125M BUFFER
DIGIT Y
DIGIT R-Y
DIGIT B-Y
D3106 1S2837 REVERSE-CURRENT PREVENTION
RY3101
Q3118 2SC2712 CONTROL-CURRENT DRIVER
RV3101 10k
RV3102 10k
FB3101 0UH
FB3102 0UH
FB3103 0UH
FB3104 0UH
FB3105 0UH
FB3106 0UH
FB3107 0.45UH
FB3108 0.45UH
FB3109 0.45UH


21
22
23
IC3304 (4/4)
MC74F125M
BUFFER
2.2
11
12
13
0
ADCK
DIGITAL
Y
AD-G
DIGITAL
R-Y
AD-R
DIGITAL
B-Y
AD-B
*15K/OTHER
A+5V
5V
-5V
A-5V
B-SS1583<AEP>-BC.-P1

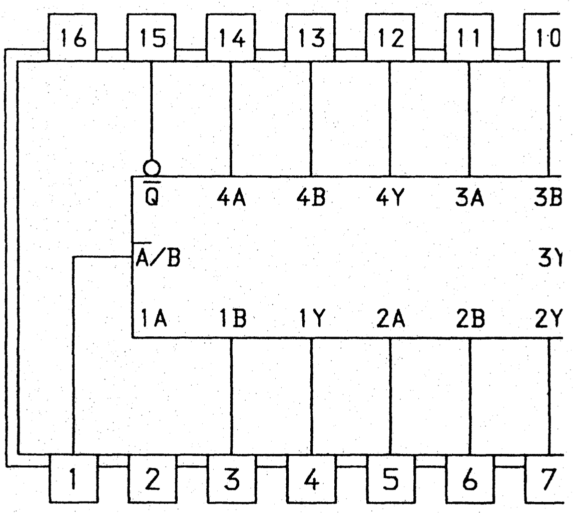
BC (1/3) BOARD

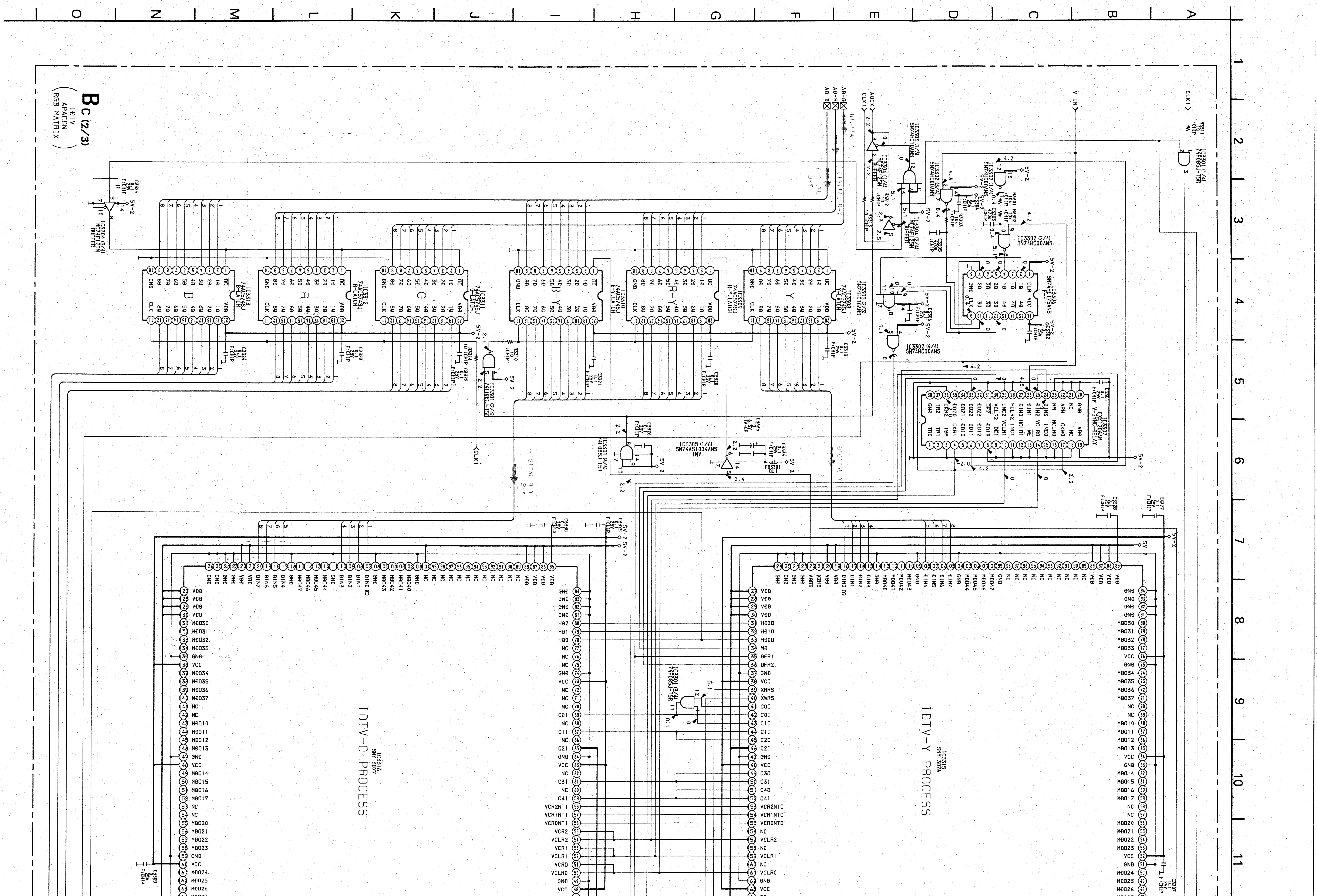


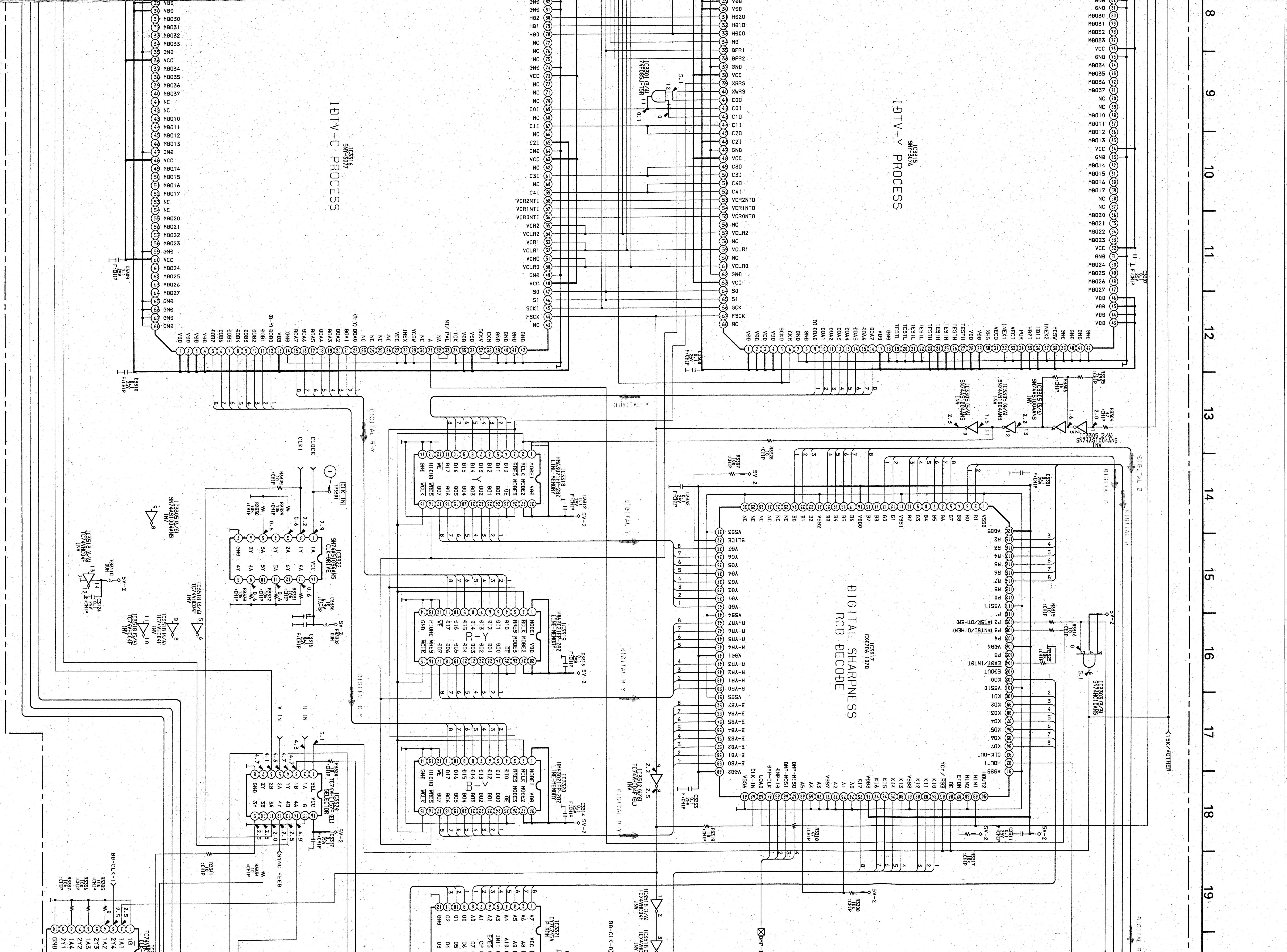
BC (2/3) BOARD



BC (2/3) BOARD IC3324 TC74VHC157F

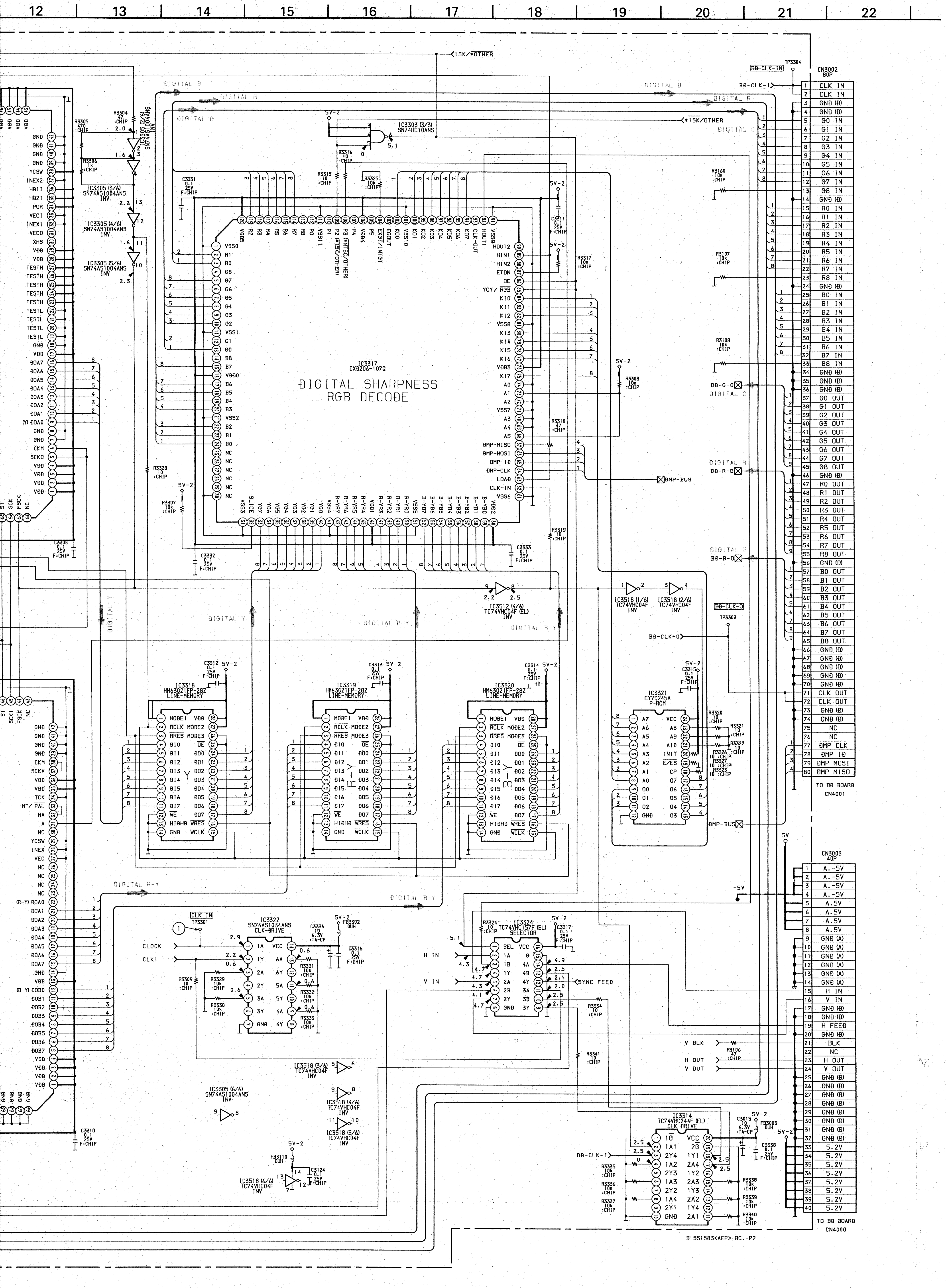

16
15
14
13
12
11
10
Q
4A
4B
4Y
3A
3B
A/B
3Y
1A
1B
1Y
2A
2B
2Y
1
2
3
4
5
6
7


Bc (2/3)
IDTV
APACON
(RGB MATRIX)
IC3313 74AC574SJ B-LATCH
IC3312 74AC574SJ R-LATCH
IC3311 74AC574SJ G-LATCH
IC3310 74AC574SJ B-Y-LATCH
IC3309 74AC574SJ R-Y-LATCH
IC3308 74AC574SJ Y-LATCH
IC3303 (2/3) SN74HC10ANS
IC3303 (1/3) SN74HC10ANS
IC3304 (1/4) MC74F125M BUFFER
IC3304 (2/4) MC74F125M BUFFER
IC3304 (3/4) MC74F125M BUFFER
IC3302 (1/4) SN74HC00ANS
IC3302 (2/4) SN74HC00ANS
IC3302 (3/4) SN74HC00ANS
IC3302 (4/4) SN74HC00ANS
IC3306 SN74HC175ANS F-F
IC3301 (1/4) 74F08SJ-T5R
IC3301 (2/4) 74F08SJ-T5R
IC3301 (4/4) 74F08SJ-T5R
IC3301 (3/4) 74F08SJ-T5R
IC3305 (1/6) SN74AS1004ANS INV
IC3307 CXK1206AM V-SYNC DELAY
IC3316 SNY-3077 IDTV-C PROCESS
IC3315 SNY-3076 IDTV-Y PROCESS
DIGITAL Y
DIGITAL B-Y
DIGITAL R-Y
DIGITAL R-Y B-Y
AD-B
AD-R
AD-G
ADCK
CLK1
V IN
5V-2
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
1
2
3
4
5
6
7
8
9
10
11


IDTV-C PROCESS
IC3316 SNY-3077
IDTV-Y PROCESS
IC3315 SNY-3076
DIGITAL SHARPNESS RGB DECODE
IC3317 CXD2061-107Q
IC3318 HM63021FP-28Z LINE-MEMORY
IC3319 HM63021FP-28Z LINE-MEMORY
IC3320 HM63021FP-28Z LINE-MEMORY
Y
R-Y
B-Y
DIGITAL Y
DIGITAL R-Y
DIGITAL B-Y
DIGITAL B
DIGITAL G
DIGITAL R
CLOCK
CLK1
CLK IN
TP3301
IC3322 SN74AS1034ANS CLK-DRIVE
IC3324 TC74VHC157F (ED) SELECTOR
IC3301 (3/4) 74F08SJ-TSR
IC3305 SN74AS1004ANS INV
IC3303 (3/3) SN74HC10ANS
IC3518 TC74VHC04F INV
IC3512 (4/6) TC74VHC04F (ED) INV
IC3321 CY7C245A P-ROM
H IN
V IN
SYNC FEED
BB-CLK-1
BB-CLK-0
15K/+OTHER
5V-2
8
9
10
11
12
13
14
15
16
17
18
19

Schematic diagram

← BC (2/3) board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13
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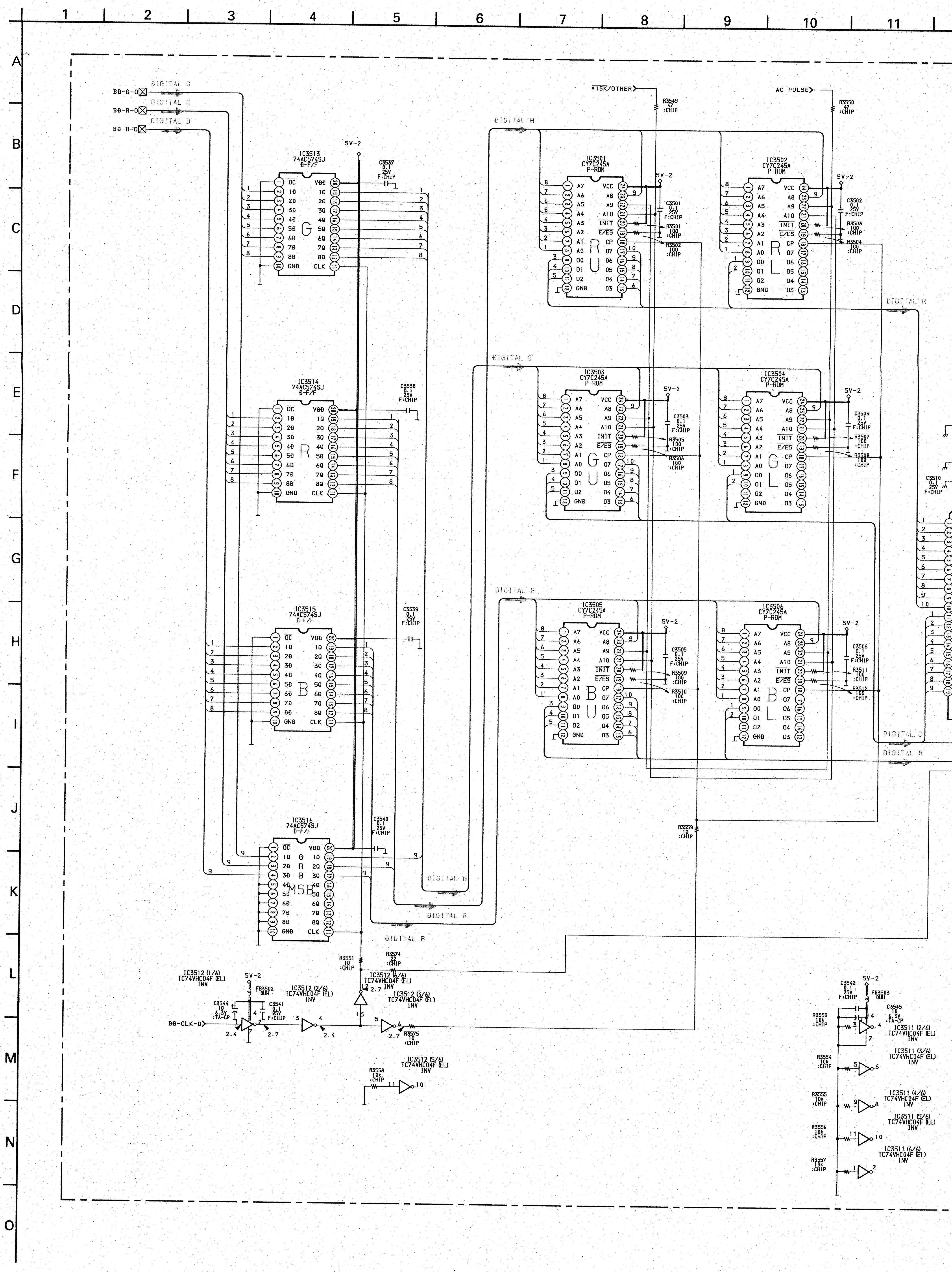
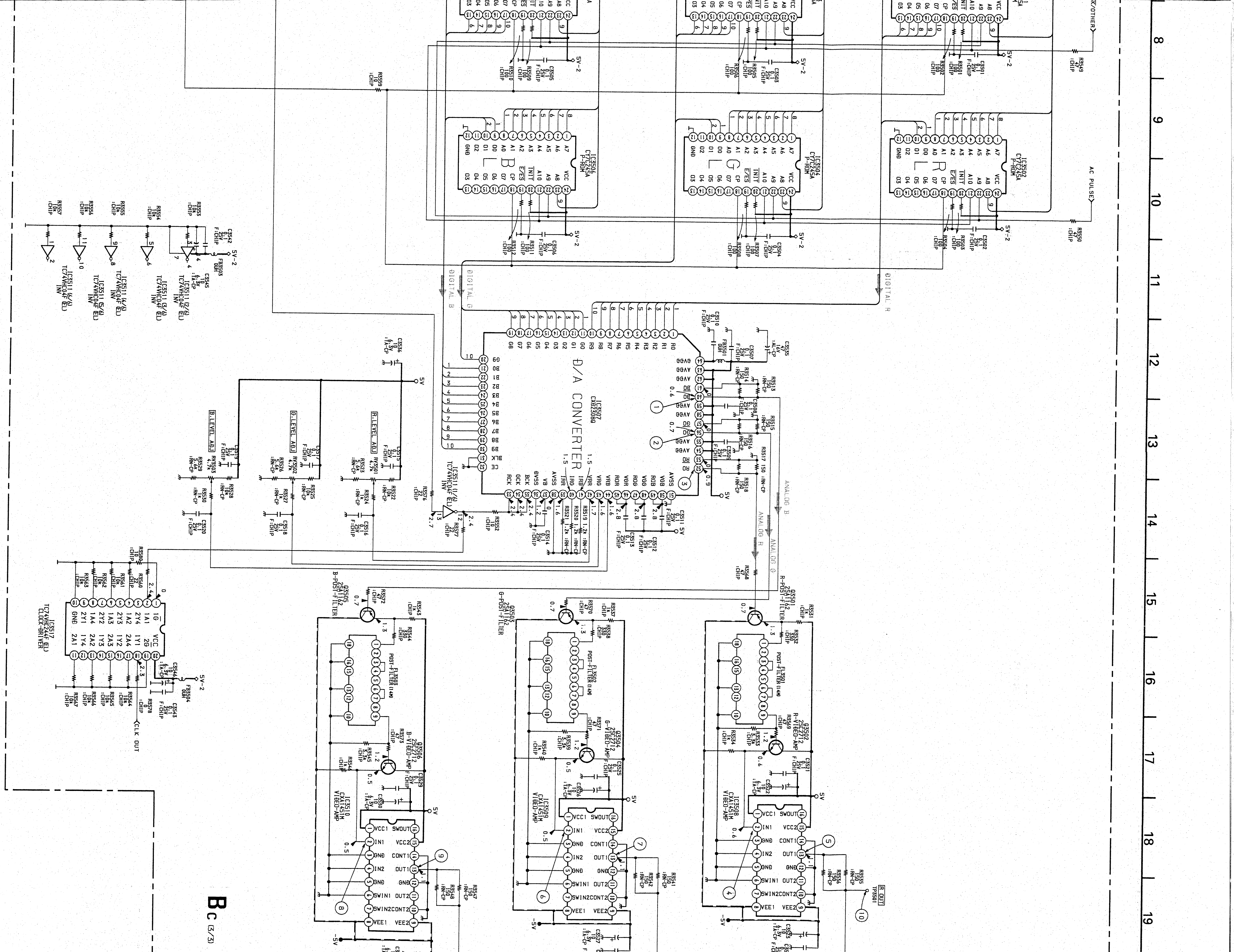
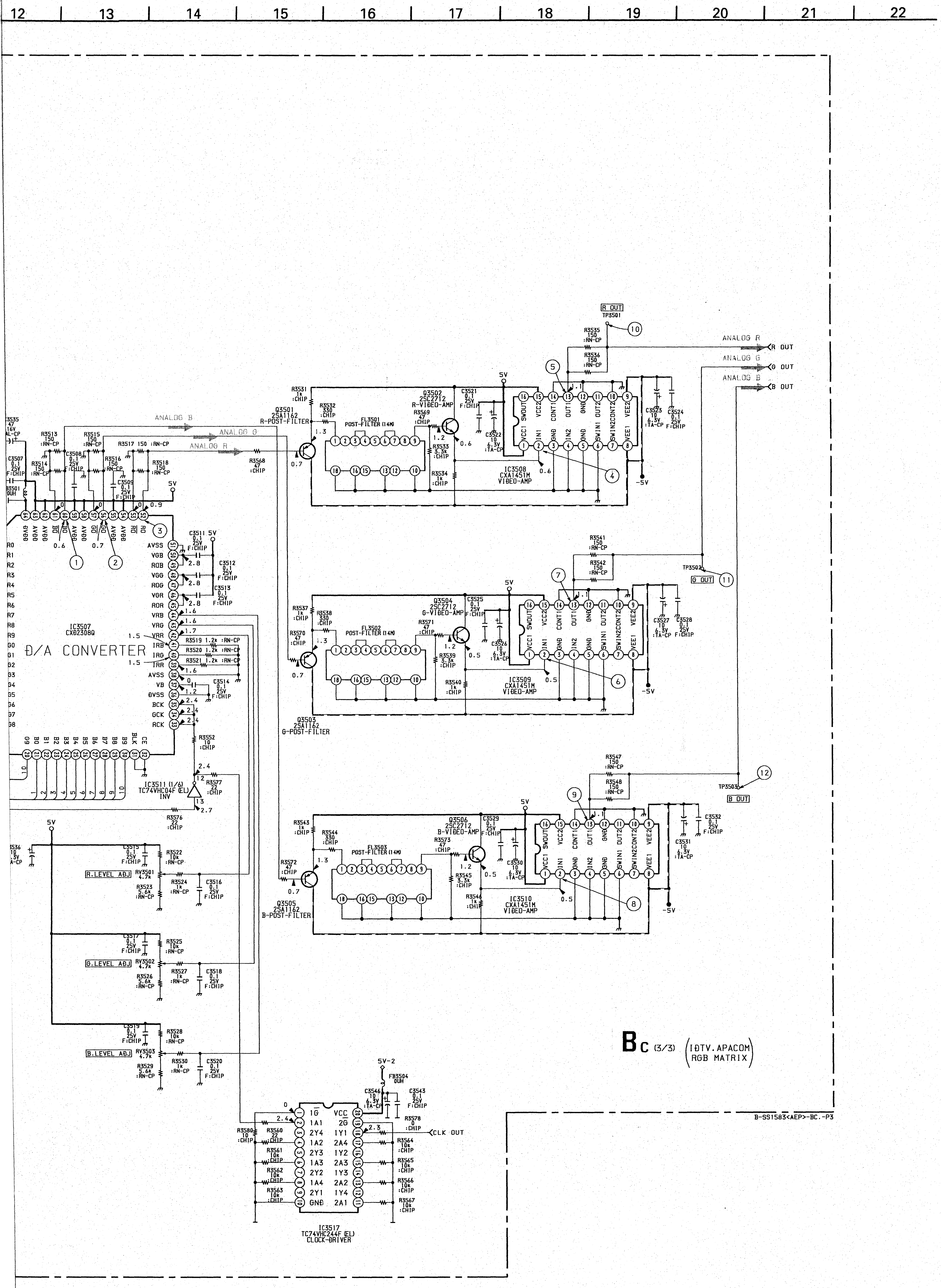
21
22
IC3317
CXD206-107Q
DIGITAL SHARPNESS
RGB DECODE
IC3318
HM63021FP-28Z
LINE-MEMORY
IC3319
HM63021FP-28Z
LINE-MEMORY
IC3320
HM63021FP-28Z
LINE-MEMORY
IC3321
CY7C245A
P-ROM
IC3322
SN74AS1034ANS
CLK-DRIVE
IC3324
TC74VHC157F (EL)
SELECTOR
IC3314
TC74VHC244F (EL)
CLK-DRIVE
IC3303 (3/3)
SN74HC10ANS
IC3305 (2/6)
SN74AS1004ANS
INV
IC3305 (3/6)
SN74AS1004ANS
INV
IC3305 (4/6)
SN74AS1004ANS
INV
IC3305 (5/6)
SN74AS1004ANS
INV
IC3305 (6/6)
SN74AS1004ANS
INV
IC3512 (4/6)
TC74VHC04F (EL)
INV
IC3518 (1/6)
TC74VHC04F
INV
IC3518 (2/6)
TC74VHC04F
INV
IC3518 (3/6)
TC74VHC04F
INV
IC3518 (4/6)
TC74VHC04F
INV
IC3518 (5/6)
TC74VHC04F
INV
IC3518 (6/6)
TC74VHC04F
INV
DIGITAL Y
DIGITAL R-Y
DIGITAL B-Y
DIGITAL R
DIGITAL G
DIGITAL B
CLOCK
CLK1
CLK IN
TP3301
H IN
V IN
SYNC FEED
V BLK
H OUT
V OUT
BD-CLK-IN
TP3304
BD-CLK-I
BD-CLK-O
TP3303
BD-G-O
BD-R-O
BD-B-O
DMP-BUS
15K/*OTHER
*15K/OTHER
5V-2
-5V
5V
CN3002
80P
TO BD BOARD
CN4001
CN3003
40P
TO BD BOARD
CN4000
B-SS1583<AEP>-BC.-P2


BØ-G-O
BØ-R-O
BØ-B-O
DIGITAL G
DIGITAL R
DIGITAL B
IC3513 74AC574SJ 8-F/F
IC3514 74AC574SJ 8-F/F
IC3515 74AC574SJ 8-F/F
IC3516 74AC574SJ 8-F/F
MSB
C3537 0.1 25V F:CHIP
C3538 0.1 25V F:CHIP
C3539 0.1 25V F:CHIP
C3540 0.1 25V F:CHIP
5V-2
*TSK/OTHER
AC PULSE
R3549 47 :CHIP
R3550 47 :CHIP
IC3501 CY7C245A P-ROM
IC3502 CY7C245A P-ROM
IC3503 CY7C245A P-ROM
IC3504 CY7C245A P-ROM
IC3505 CY7C245A P-ROM
IC3506 CY7C245A P-ROM
C3501 0.1 25V F:CHIP
C3502 0.1 25V F:CHIP
C3503 0.1 25V F:CHIP
C3504 0.1 25V F:CHIP
C3505 0.1 25V F:CHIP
C3506 0.1 25V F:CHIP
C3510 0.1 25V F:CHIP
R3501 100 :CHIP
R3502 100 :CHIP
R3503 100 :CHIP
R3504 100 :CHIP
R3505 100 :CHIP
R3506 100 :CHIP
R3507 100 :CHIP
R3508 100 :CHIP
R3509 100 :CHIP
R3510 100 :CHIP
R3511 100 :CHIP
R3512 100 :CHIP
R3559 10 :CHIP
R3551 10 :CHIP
R3574 22 :CHIP
R3575 10 :CHIP
R3558 10k :CHIP
BØ-CLK-O
IC3512 (1/6) TC74VHC04F (EL) INV
IC3512 (2/6) TC74VHC04F (EL) INV
IC3512 (3/6) TC74VHC04F (EL) INV
IC3512 (4/6) TC74VHC04F (EL) INV
IC3512 (5/6) TC74VHC04F (EL) INV
FB3502 0UH
C3544 10 6.3V :TA-CP
C3541 0.1 25V F:CHIP
2.4
2.7
C3542 0.1 25V F:CHIP
FB3503 0UH
C3545 10 6.3V :TA-CP
R3553 10k :CHIP
R3554 10k :CHIP
R3555 10k :CHIP
R3556 10k :CHIP
R3557 10k :CHIP
IC3511 (2/6) TC74VHC04F (EL)
IC3511 (3/6) TC74VHC04F (EL) INV
IC3511 (4/6) TC74VHC04F (EL) INV
IC3511 (5/6) TC74VHC04F (EL) INV
IC3511 (6/6) TC74VHC04F (EL) INV
1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O

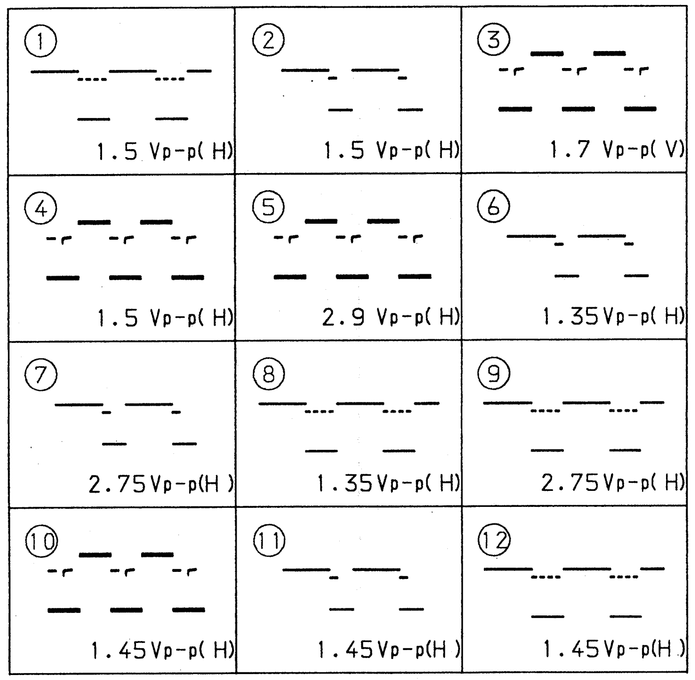

IC3506 CY7C245A P-ROM
IC3504 CY7C245A P-ROM
IC3502 CY7C245A P-ROM
B
G
R
DIGITAL B
DIGITAL G
DIGITAL R
AC PULSE
5V-2
IC3507 CXD2308Q
D/A CONVERTER
IC3511 (1/6) TC74VHC04F (EL) INV
IC3511 (2/6) TC74VHC04F (EL) INV
IC3511 (3/6) TC74VHC04F (EL) INV
IC3511 (4/6) TC74VHC04F (EL) INV
IC3511 (5/6) TC74VHC04F (EL) INV
IC3511 (6/6) TC74VHC04F (EL) INV
B.LEVEL ADJ
G.LEVEL ADJ
R.LEVEL ADJ
ANALOG B
ANALOG G
ANALOG R
IC3517 TC74VHC244F (EL) CLOCK-DRIVER
CLK OUT
Q3505 2SA1162 B-POST-FILTER
Q3503 2SA1162 G-POST-FILTER
Q3501 2SA1162 R-POST-FILTER
FL3503 POST-FILTER (14M)
FL3502 POST-FILTER (14M)
FL3501 POST-FILTER (14M)
Q3506 2SC2712 B-VIDEO-AMP
Q3504 2SC2712 G-VIDEO-AMP
Q3502 2SC2712 R-VIDEO-AMP
IC3510 CXA1451M VIDEO-AMP
IC3509 CXA1451M VIDEO-AMP
IC3508 CXA1451M VIDEO-AMP
R OUT TP3501
5V
-5V
Bc (3/3)
8
9
10
11
12
13
14
15
16
17
18
19


12
13
14
15
16
17
18
19
20
21
22
IC3507
CXD2308Q
D/A CONVERTER
IC3511 (1/6)
TC74VHC04F (EL)
INV
Q3501
2SA1162
R-POST-FILTER
Q3503
2SA1162
G-POST-FILTER
Q3505
2SA1162
B-POST-FILTER
FL3501
POST-FILTER (14M)
FL3502
POST-FILTER (14M)
FL3503
POST-FILTER (14M)
Q3502
2SC2712
R-VIDEO-AMP
Q3504
2SC2712
G-VIDEO-AMP
Q3506
2SC2712
B-VIDEO-AMP
IC3508
CXA1451M
VIDEO-AMP
IC3509
CXA1451M
VIDEO-AMP
IC3510
CXA1451M
VIDEO-AMP
VCC1
SWOUT
VCC2
CONT1
OUT1
GND
OUT2
VEE2
IN1
IN2
SWIN1
SWIN2CONT2
VEE1
R.LEVEL ADJ
RV3501
4.7k
G.LEVEL ADJ
RV3502
4.7k
B.LEVEL ADJ
RV3503
4.7k
R OUT
TP3501
G OUT
TP3502
B OUT
TP3503
ANALOG R
ANALOG G
ANALOG B
R OUT
G OUT
B OUT
IC3517
TC74VHC244F (EL)
CLOCK-DRIVER
CLK OUT
5V-2
FB3504
0uH
5V
-5V
AVSS
VGB
ROB
VGG
ROG
VGR
ROR
VRB
VRG
VRR
IRB
IRG
IRR
VB
BVSS
BCK
GCK
RCK
BLK
CE
1G
2G
1A1
1A2
1A3
1A4
2Y1
2Y2
2Y3
2Y4
1Y1
1Y2
1Y3
1Y4
2A1
2A2
2A3
2A4
VCC
GND
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
B-SS1583<AEP>-BC.-P3

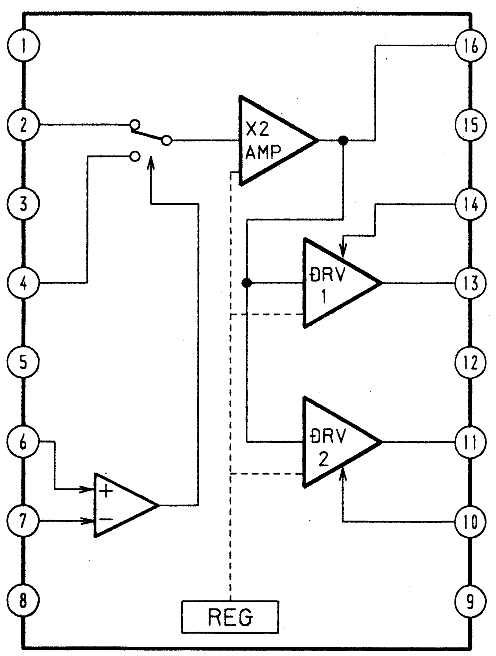
BC (3/3) (IDTV.APACOM RGB MATRIX)

BC [IDTV. APACON. RGB MATRIX]

BC (3/3) BOARD



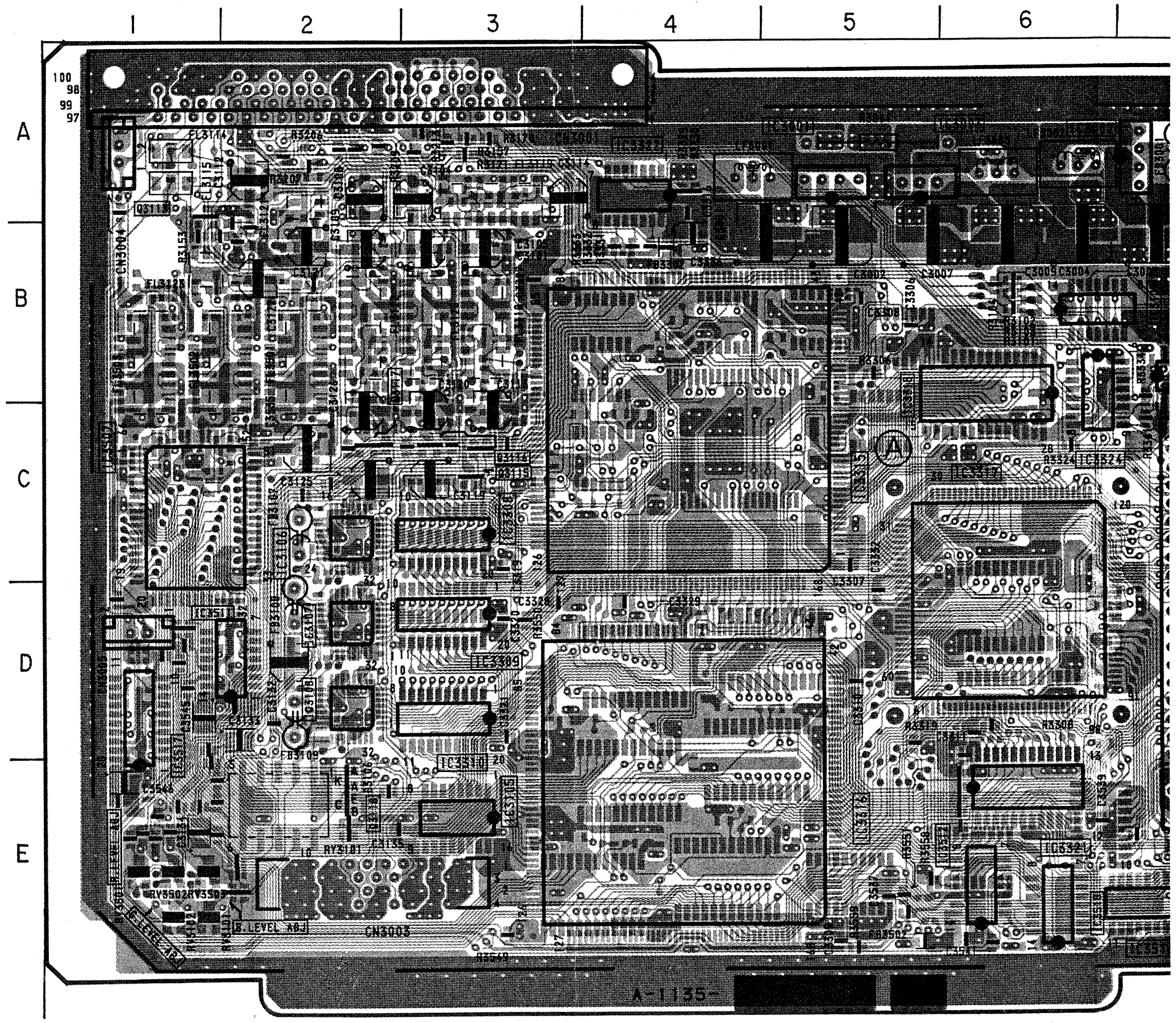
BC (3/3) BOARD IC3508 CXA1451M-T4

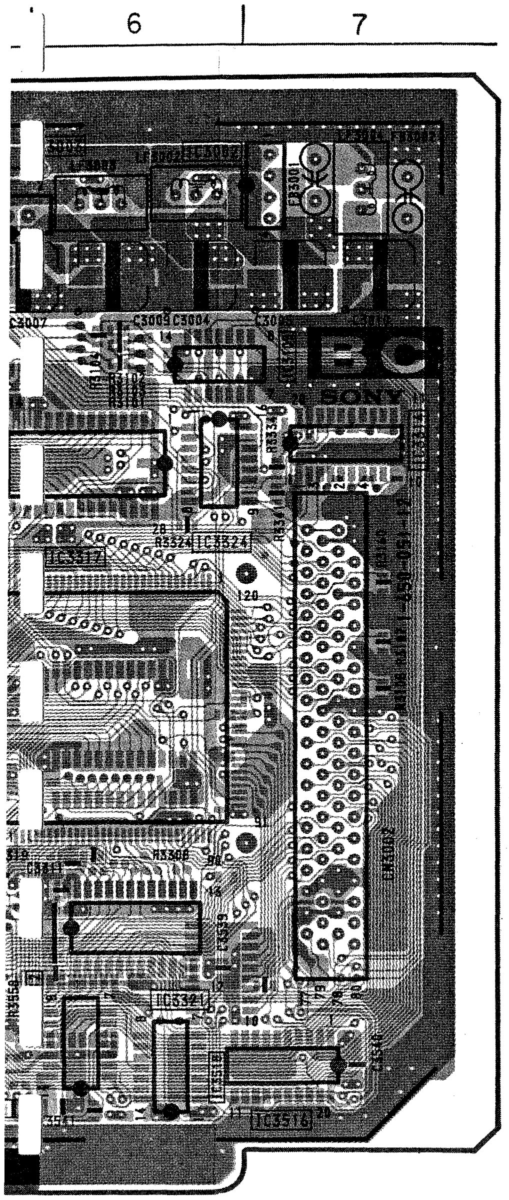

1
2
3
4
5
6
7
8
16
15
14
13
12
11
10
9
X2
AMP
DRV
1
DRV
2
+
−
REG

BC BOARD
(COMPONENT SIDE)

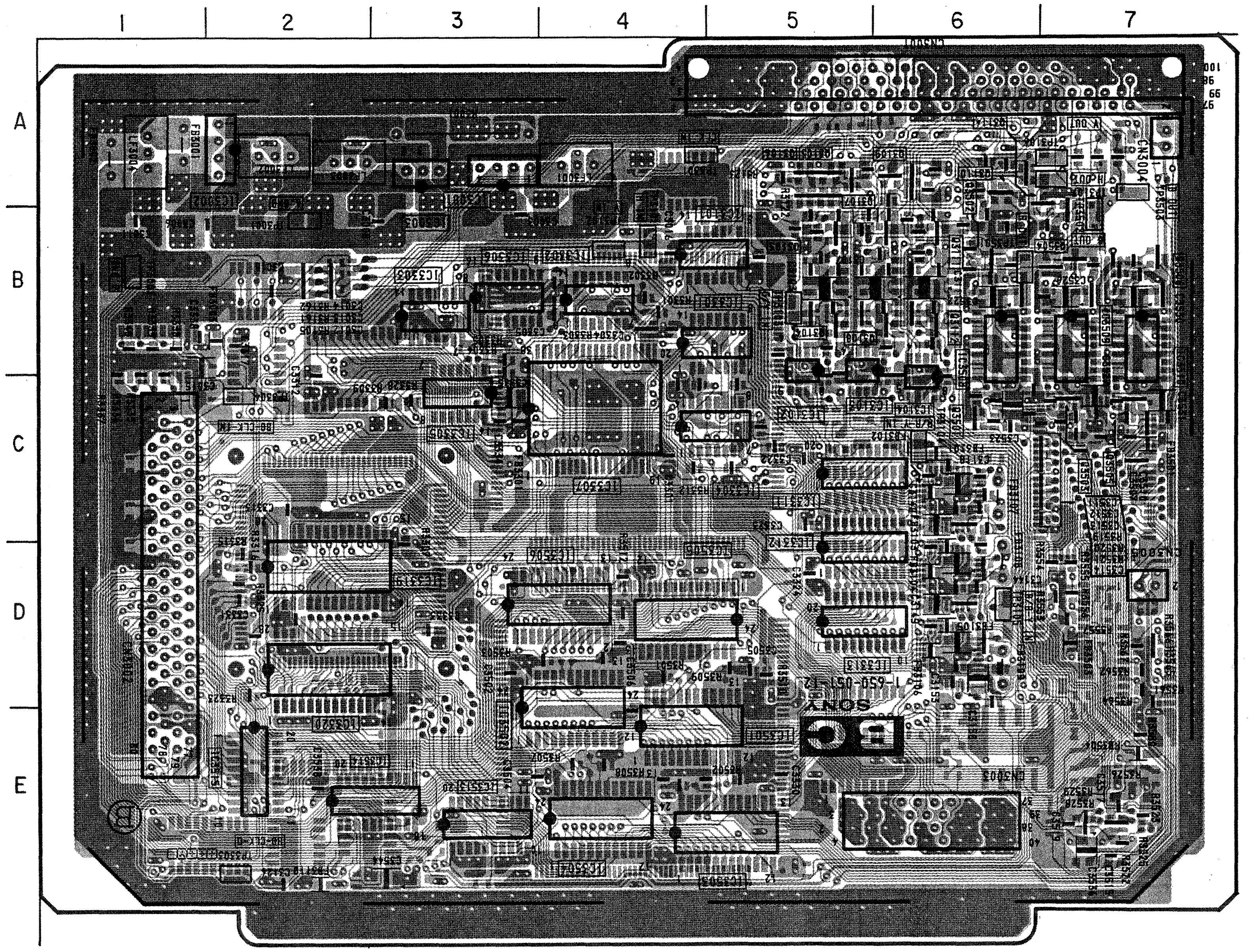
IC	
IC3001	A-5
IC3002	A-6
IC3003	A-5
IC3105	E-3
IC3106	C-2
IC3107	D-2
IC3108	D-2
IC3109	B-7
IC3308	C-3
IC3309	D-3
IC3310	D-3
IC3314	B-7
IC3315	C-4
IC3316	E-4
IC3317	D-6
IC3318	B-6
IC3321	E-6
IC3322	A-4
IC3324	C-6
IC3507	C-1
IC3511	D-2
IC3512	E-6
IC3516	E-7
IC3517	D-1
IC3518	E-6
TRANSISTOR	
Q3113	A-1
Q3115	C-3
Q3116	C-3
Q3117	C-2
Q3118	E-2
DIODE	
D3106	E-2
VARIABLE RESISTOR	
RV3101	E-1
RV3102	E-1
RV3501	E-1
RV3502	E-1
RV3503	E-1

– BC BOARD – <Component Side>


1
2
3
4
5
6
A
B
C
D
E
A-1135-



<Conductor Side>



BC BOARD
(CONDUCTOR SIDE)

IC	TEST POINT
IC3001 A-3	TP3001 B-2
IC3002 A-2	TP3002 B-1
IC3003 A-3	TP3101 B-4
IC3101 B-5	TP3102 B-4
IC3102 C-5	TP3103 B-5
IC3103 C-6	TP3104 C-6
IC3104 C-6	TP3105 D-6
IC3301 B-5	TP3106 A-7
IC3302 B-4	TP3107 A-7
IC3303 B-3	TP3301 A-5
IC3304 C-5	TP3303 E-2
IC3305 C-3	TP3304 C-2
IC3306 B-3	TP3501 B-6
IC3307 C-4	TP3502 B-7
IC3311 C-5	TP3503 B-7
IC3312 D-5	
IC3313 D-6	
IC3319 D-2	
IC3320 D-2	
IC3501 E-5	
IC3502 E-4	
IC3503 E-5	
IC3504 E-4	
IC3505 D-5	
IC3506 D-4	
IC3508 B-6	
IC3509 B-7	
IC3510 B-7	
IC3513 E-3	
IC3514 E-2	
IC3515 E-2	

TRANSISTOR
Q3103 B-5
Q3104 B-5
Q3105 A-5
Q3106 A-5
Q3107 A-5
Q3108 B-6
Q3109 A-6
Q3110 A-6
Q3111 B-6
Q3112 B-6
Q3114 B-7
Q3501 C-6
Q3502 B-6
Q3503 C-7
Q3504 B-7
Q3505 C-7
Q3506 B-7

Note:
- ▒ : Pattern from the side which enables seeing.
- ▒ : Pattern of the rear.

BB

[Y/C. CROMA DECODE. A/D]

BB BOARD
(COMPONENT SIDE)

IC	
IC2001	A-6
IC2002	E-4
IC2004	D-7
IC2007	B-6
IC2009	E-6
IC2010	B-4
IC2011	A-7
IC2014	A-5
IC2016	E-1
IC2017	E-7
IC2018	D-6
IC2019	E-2
IC2020	B-3
IC2022	B-2
IC2023	B-1
IC2024	E-7

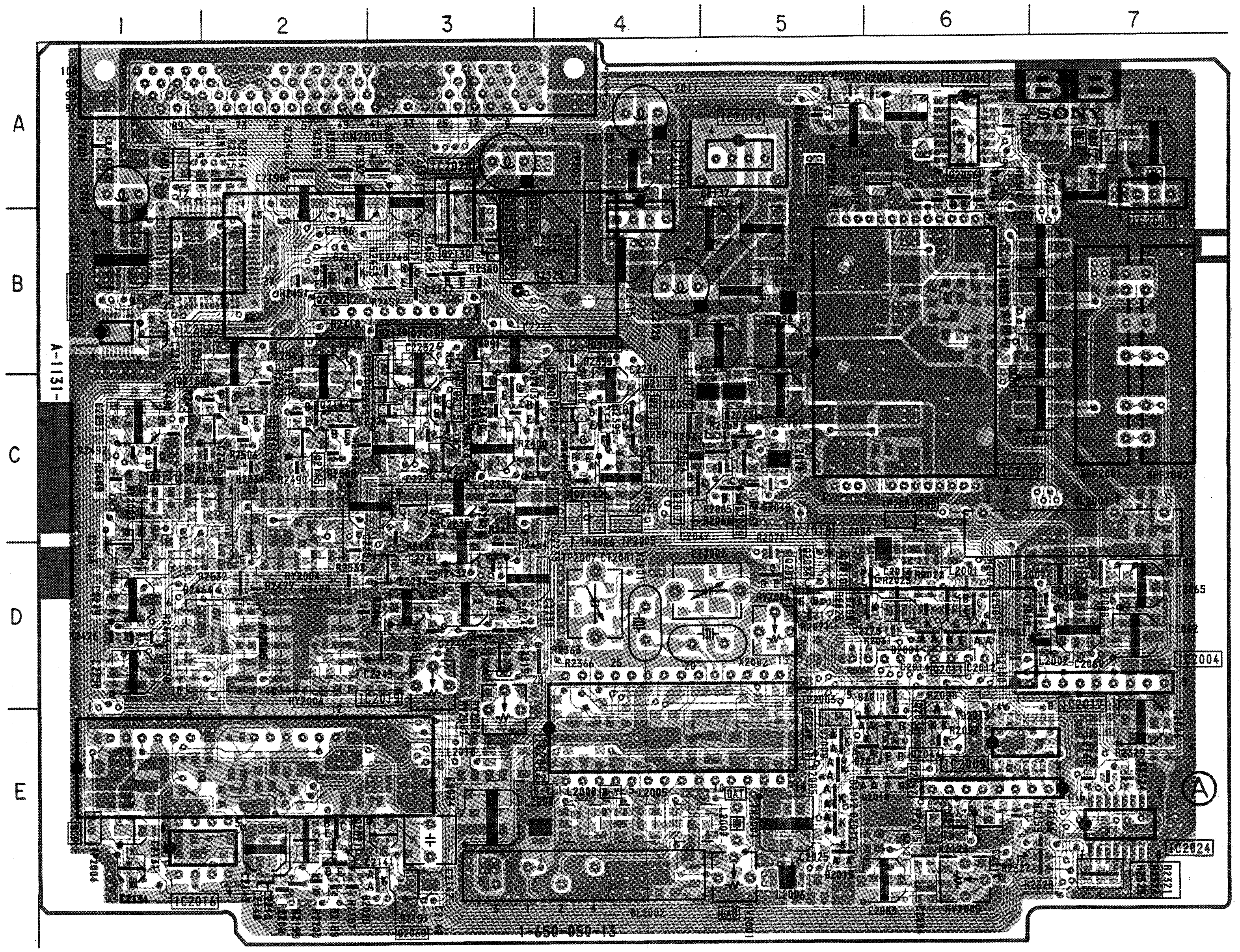
TRANSISTOR	
Q2007	D-6
Q2010	D-5
Q2011	D-6
Q2017	C-5
Q2022	C-5
Q2025	D-5
Q2026	D-5
Q2029	C-5
Q2038	E-6
Q2044	E-6
Q2047	E-6
Q2056	A-6
Q2069	E-2
Q2071	E-2
Q2110	C-4
Q2112	C-4
Q2113	C-4
Q2115	C-3
Q2118	B-3
Q2120	C-3
Q2123	C-3
Q2130	B-3
Q2131	B-3
Q2136	C-2
Q2138	C-2
Q2141	C-1
Q2144	C-2
Q2145	C-2
Q2153	B-2
Q2155	B-3
Q2156	B-4
Q2157	B-3

DIODE	
D2001	D-6
D2002	D-6
D2004	D-6
D2005	E-5
D2009	E-5
D2011	E-6
D2012	E-6
D2013	E-6
D2014	E-6
D2015	E-5
D2016	E-5
D2018	E-6
D2028	E-3
D2115	B-2

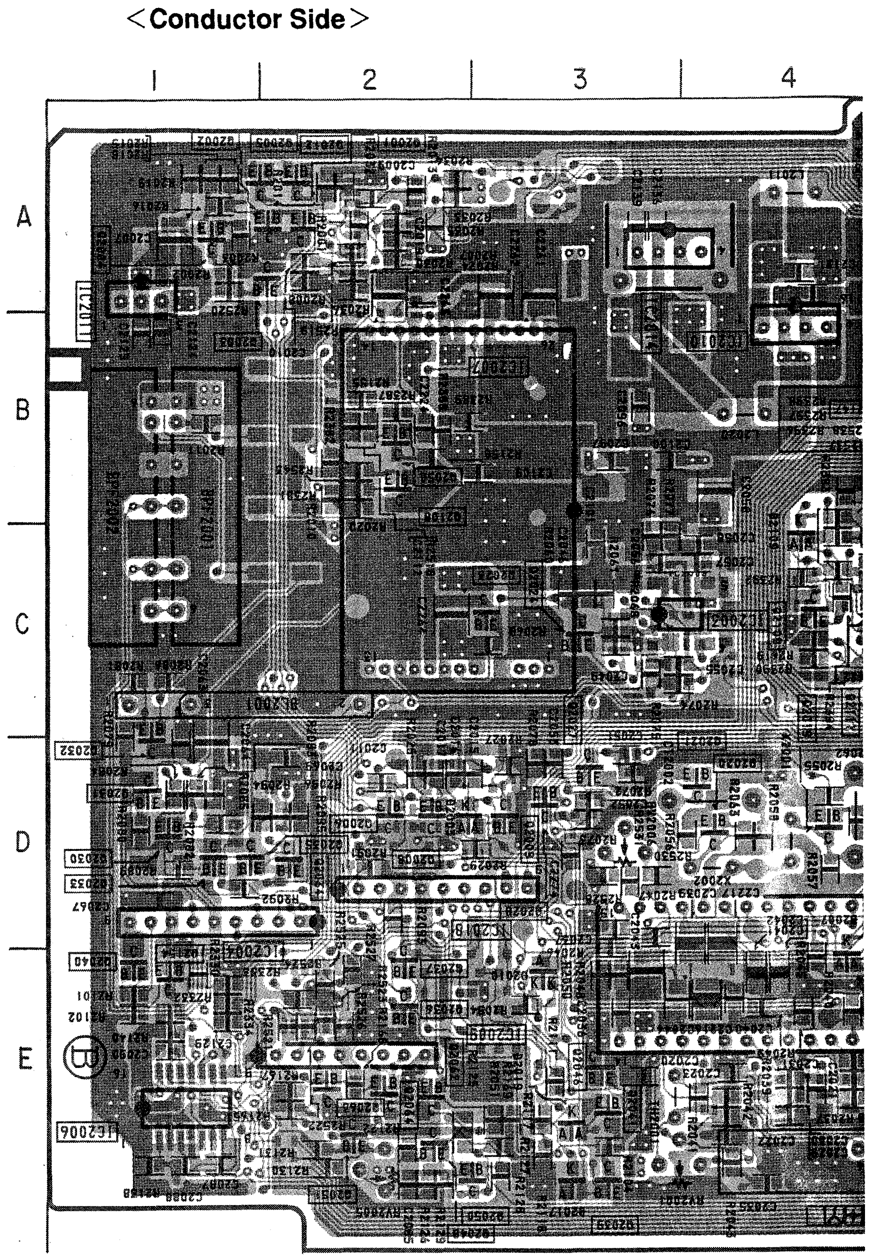
ADJUSTING ELEMENT	
CT2001	D-4
CT2002	D-5
RV2001	E-5
RV2002	D-3
RV2004	E-3
RV2005	E-6
RV2006	D-5

TEST POINT	
TP2001	C-6
TP2002	D-6
TP2003	E-5
TP2004	E-1
TP2005	C-4
TP2006	C-4
TP2007	C-4
TP2008	C-4
TP2009	C-3
TP2010	C-3
TP2011	A-5
TP2012	A-7
TP2013	A-4
TP2014	A-1
TP2015	E-6

– BB BOARD – **<Component Side>**

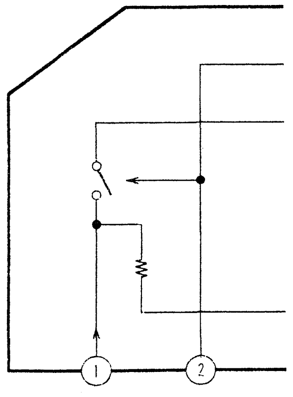


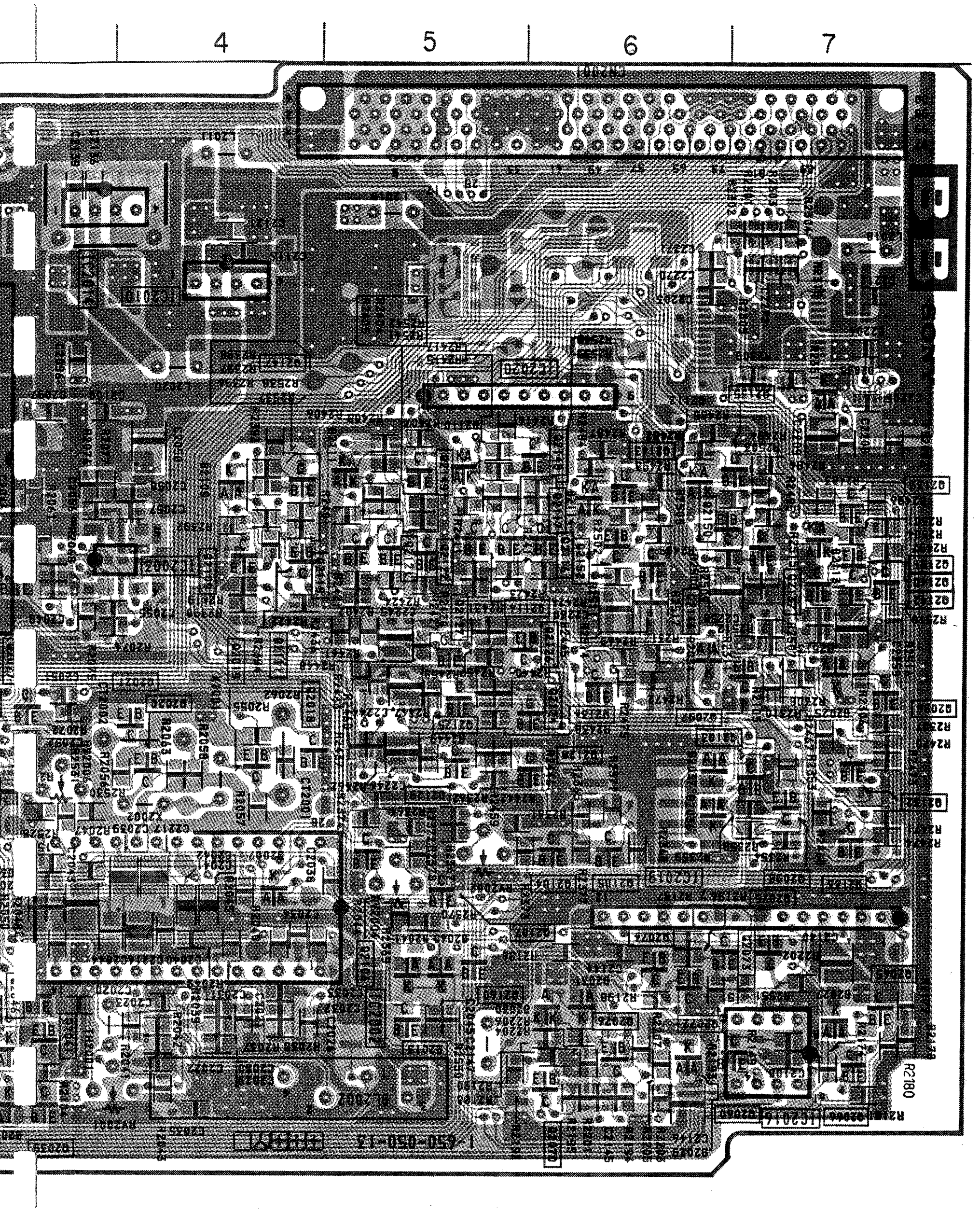
<Conductor Side>



Note:
- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear.

BB (1/2) BOARD IC200





BB BOARD (CONDUCTOR SIDE)

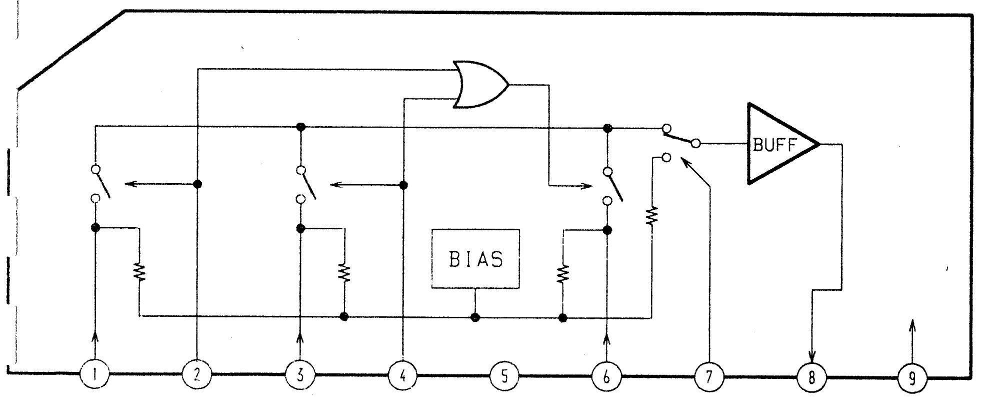
IC	
IC2002	E-5
IC2003	C-4
IC2004	D-2
IC2006	E-1
IC2007	B-3
IC2009	E-2
IC2010	B-4
IC2011	A-1
IC2014	A-3
IC2016	E-7
IC2018	D-3
IC2019	E-6
IC2020	B-6

TRANSISTOR	
Q2001	A-2
Q2002	A-1
Q2003	A-2
Q2004	A-1
Q2005	A-2
Q2006	D-2
Q2008	D-2
Q2009	D-3
Q2012	A-2
Q2013	E-5
Q2018	D-5
Q2019	C-4
Q2020	D-4
Q2021	D-4
Q2023	C-3
Q2024	C-3
Q2027	D-3
Q2028	D-3
Q2030	D-1
Q2031	D-1
Q2032	D-1
Q2033	D-1
Q2034	D-2
Q2035	D-2
Q2036	E-2
Q2037	E-2
Q2039	E-3
Q2040	E-1
Q2041	E-3
Q2046	E-3
Q2048	E-2
Q2050	E-3
Q2051	E-2
Q2058	B-2
Q2060	E-7
Q2062	E-2
Q2063	E-2
Q2064	E-2
Q2065	E-7
Q2066	E-7
Q2070	E-6
Q2072	E-7
Q2073	E-7
Q2074	E-6
Q2075	E-7
Q2076	E-6
Q2096	D-7
Q2097	D-7
Q2098	D-7
Q2103	D-7
Q2104	D-6
Q2105	D-6
Q2106	E-5
Q2107	E-5
Q2108	B-2
Q2109	C-4
Q2111	C-4
Q2114	C-6
Q2116	C-6
Q2117	C-6
Q2119	C-5
Q2121	C-5
Q2122	C-5
Q2124	D-6
Q2125	D-5
Q2126	C-6
Q2127	C-5
Q2128	D-6
Q2129	D-5
Q2132	D-7
Q2133	D-7
Q2134	D-6
Q2135	B-7
Q2137	C-7
Q2139	C-7
Q2140	C-7
Q2142	C-7
Q2143	C-6
Q2146	C-6
Q2147	C-4
Q2148	B-6
Q2149	C-5
Q2150	C-7
Q2151	C-7
Q2152	C-6
Q2154	E-1
Q2160	E-5

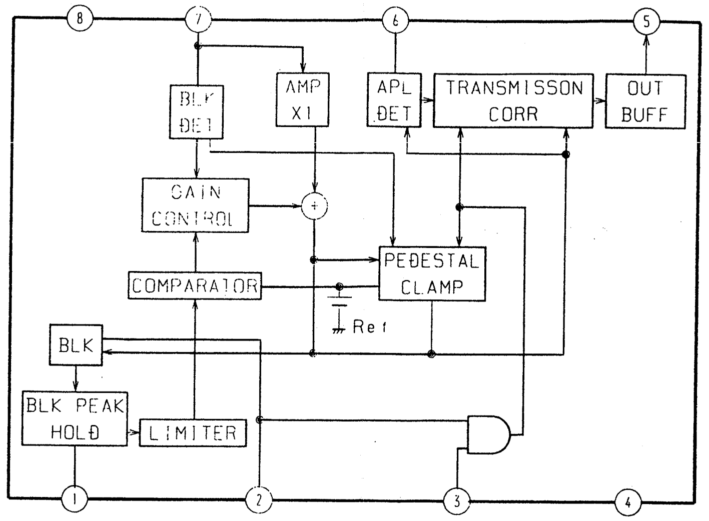
DIODE	
D2003	D-3
D2007	E-4
D2010	E-3
D2017	E-3
D2019	E-3
D2025	D-7
D2027	E-7
D2029	E-6
D2030	E-6
D2031	E-6
D2034	C-6
D2035	B-7
D2036	D-6
D2037	D-6
D2040	E-5
D2041	E-5
D2109	C-4
D2110	C-5
D2111	C-5
D2112	C-6
D2113	C-7
D2114	C-6

ADJUSTING ELEMENT	
CT2001	D-4
CT2002	D-4
RV2001	E-4
RV2002	E-5
RV2004	E-5
RV2005	E-2
RV2006	D-3

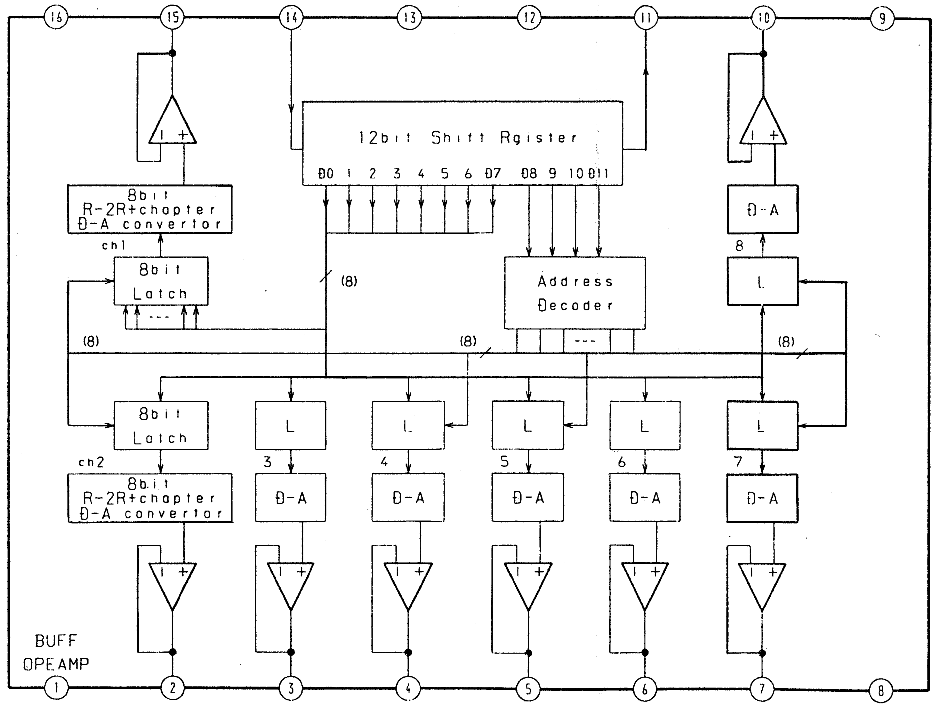
BB (1/2) BOARD IC2004 CX-894


BUFF
BIAS
1
2
3
4
5
6
7
8
9

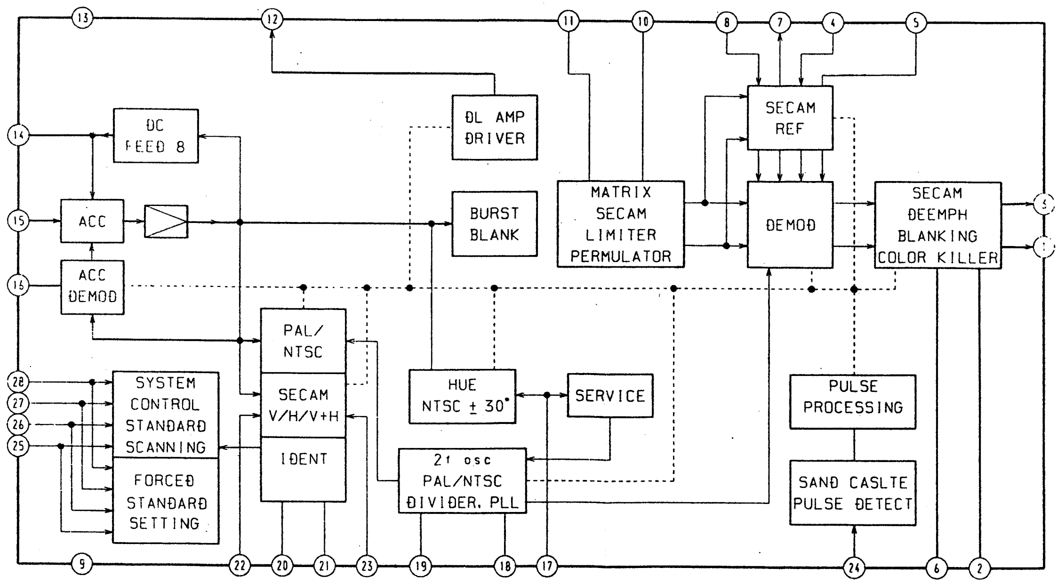
BB (1/2) BOARD IC2009 CX20125

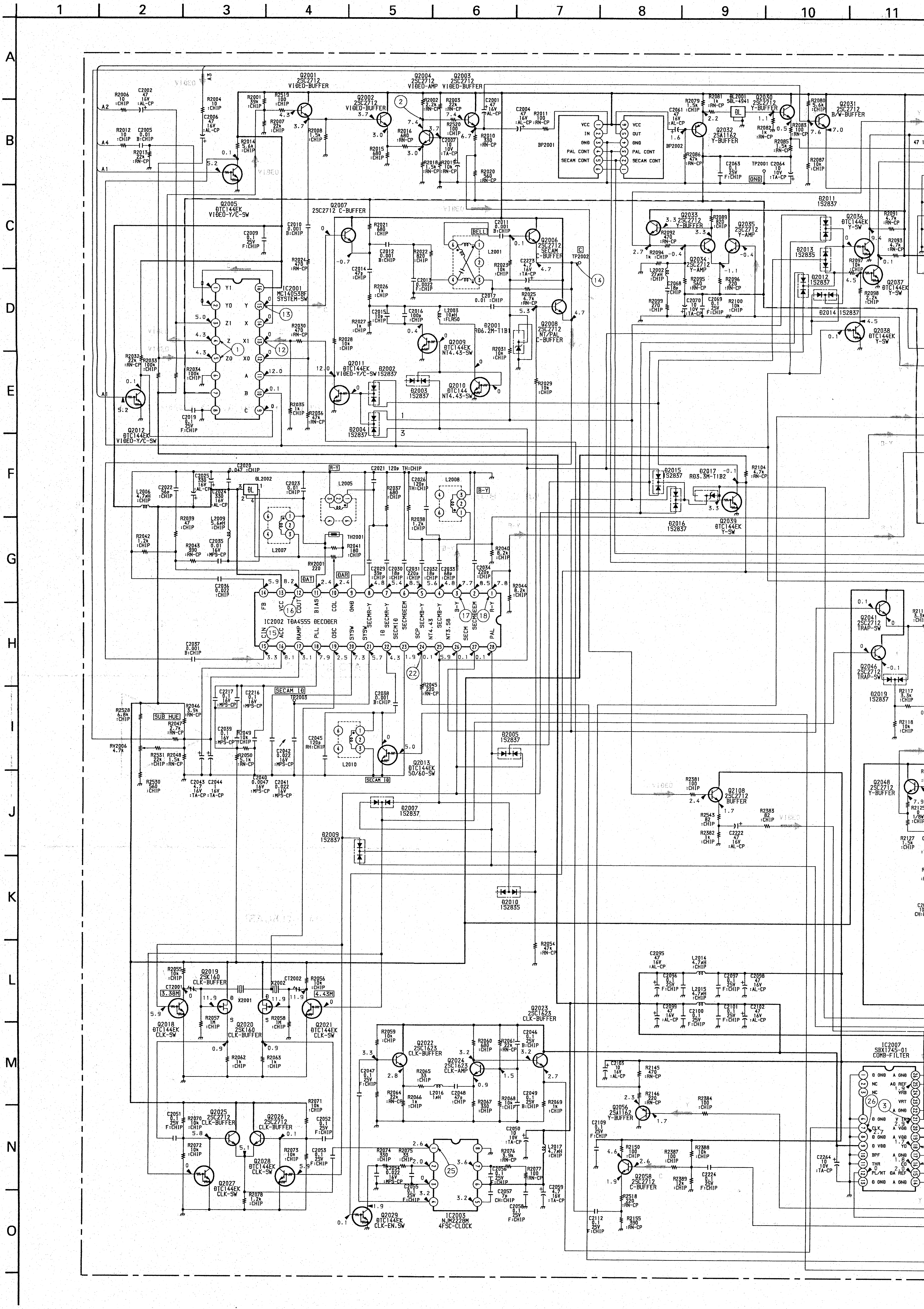

8
7
6
5
BLK DET
AMP X1
APL DET
TRANSMISSON CORR
OUT BUFF
GAIN CONTROL
PEDESTAL CLAMP
COMPARATOR
Ref
BLK
BLK PEAK HOLD
LIMITER
1
2
3
4

BB (1/2) BOARD IC2023 M62353GP


16
15
14
13
12
11
10
9
12bit Shift Rgister
D0 1 2 3 4 5 6 D7 D8 9 10 D11
8bit R-2R+chopter D-A convertor
ch1
8bit Latch
(8)
Address Decoder
D-A
L
8
ch2
3
4
5
6
7
BUFF OPEAMP
1
2
3
4
5
6
7
8

BB (1/2) BOARD IC2002 TDA4555


13
12
11
10
8
7
4
5
DL AMP DRIVER
DC FEED B
14
15
16
ACC
ACC DEMOD
BURST BLANK
MATRIX SECAM LIMITER PERMULATOR
SECAM REF
DEMOD
SECAM DEEMPH BLANKING COLOR KILLER
PAL/ NTSC
SECAM V/H/V+H
IDENT
SYSTEM CONTROL STANDARD SCANNING
FORCED STANDARD SETTING
HUE NTSC ± 30°
SERVICE
2f osc PAL/NTSC DIVIDER, PLL
PULSE PROCESSING
SAND CASLTE PULSE DETECT
28
27
26
25
9
22
20
21
23
19
18
17
24
6
2


1
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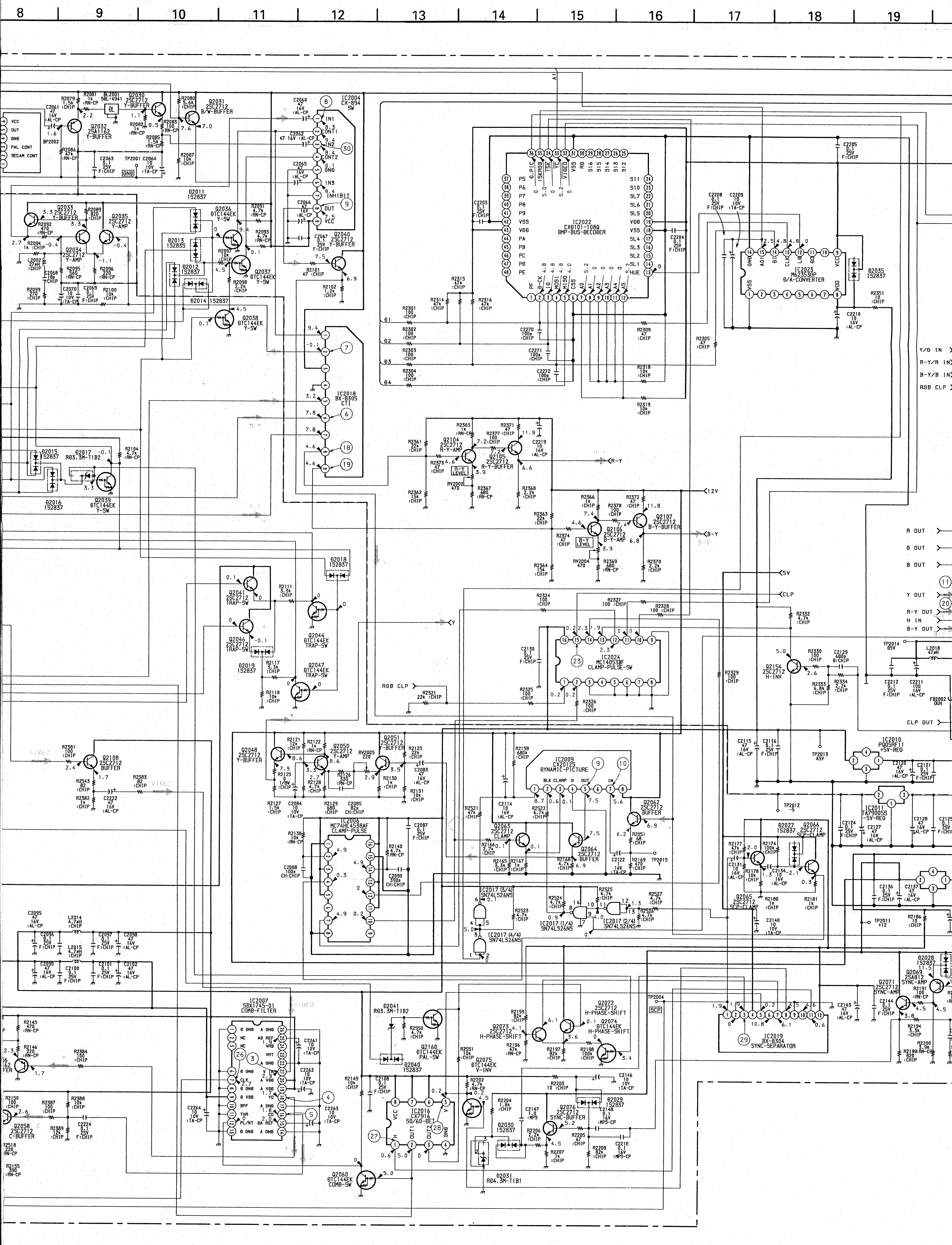
6
7
8
9
10
11
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
Q2001 2SC2712 VIDEO-BUFFER
Q2002 2SC2712 VIDEO-BUFFER
Q2004 2SC2712 VIDEO-AMP
Q2003 2SC2712 VIDEO-BUFFER
Q2005 DTC144EK VIDEO-Y/C-SW
Q2007 2SC2712 C-BUFFER
Q2006 2SC2712 SECAM C-BUFFER
Q2008 2SC2712 NT/PAL C-BUFFER
Q2009 DTC144EK NT4.43-SW
Q2010 DTC144 NT4.43-SW
Q2011 DTC144EK VIDEO-Y/C-SW
Q2012 DTC144EK VIDEO-Y/C-SW
IC2001 MC14053BF SYSTEM-SW
BP2001
BP2002
VCC
IN
GND
PAL CONT
SECAM CONT
OUT
Q2030 2SC2712 Y-BUFFER
Q2031 2SC2712 B/W-BUFFER
Q2032 2SA1162 Y-BUFFER
Q2033 2SC2712 Y-BUFFER
Q2034 2SC2712 Y-AMP
Q2035 2SC2712 Y-AMP
Q2036 DTC144EK Y-SW
Q2037 DTC144EK Y-SW
Q2038 DTC144EK Y-SW
Q2039 DTC144EK Y-SW
TP2001
TP2002
GND
BELL
L2001
DL2001 5GL-4941
IC2002 TDA4555 DECODER
FB
VCC
COUT
BIAS
COL
GND
SECMR-Y
ID
SECMR-Y
SECMDEEM
SECMB-Y
NT4.43
NT3.58
B-Y
SECM
SECMDEEM
R-Y
CIN
ACC
RAMP
PLL
OSC
SYSSW
SYSW
SECMID
SCP
PAL
DL2002
L2005
L2007
L2008
L2010
TH2001
RV2001
DAT
DAR
SUB HUE
RV2006
SECAM ID
Q2013 DTC144EK 50/60-SW
Q2041 2SC2712 TRAP-SW
Q2046 2SC2712 TRAP-SW
Q2048 2SC2712 Y-BUFFER
Q2108 2SC2712 BUFFER
VIDEO
Q2018 DTC144EK CLK-SW
Q2019 2SK160 CLK-BUFFER
Q2020 2SK160 CLK-BUFFER
Q2021 DTC144EK CLK-SW
X2001
X2002
CT2001
CT2002
3.58M
4.43M
Q2022 2SC1623 CLK-BUFFER
Q2023 2SC1623 CLK-BUFFER
Q2024 2SC1623 CLK-AMP
Q2025 2SC2712 CLK-BUFFER
Q2026 2SC2712 CLK-BUFFER
Q2027 DTC144EK CLK-SW
Q2028 DTC144EK CLK-SW
Q2029 DTC144EK CLK-EN.SW
IC2003 NJM2228M 4FSC-CLOCK
Q2056 2SA1162 Y-BUFFER
Q2058 2SC2712 C-BUFFER
IC2007 SBX1745-01 COMB-FILTER
D GND
NC
A0 REF
VRB
VRT
A GND
Y IN
A VDD
CLK
D VDD
BPF
THR
PL/NT
DA REF
A GND
D GND



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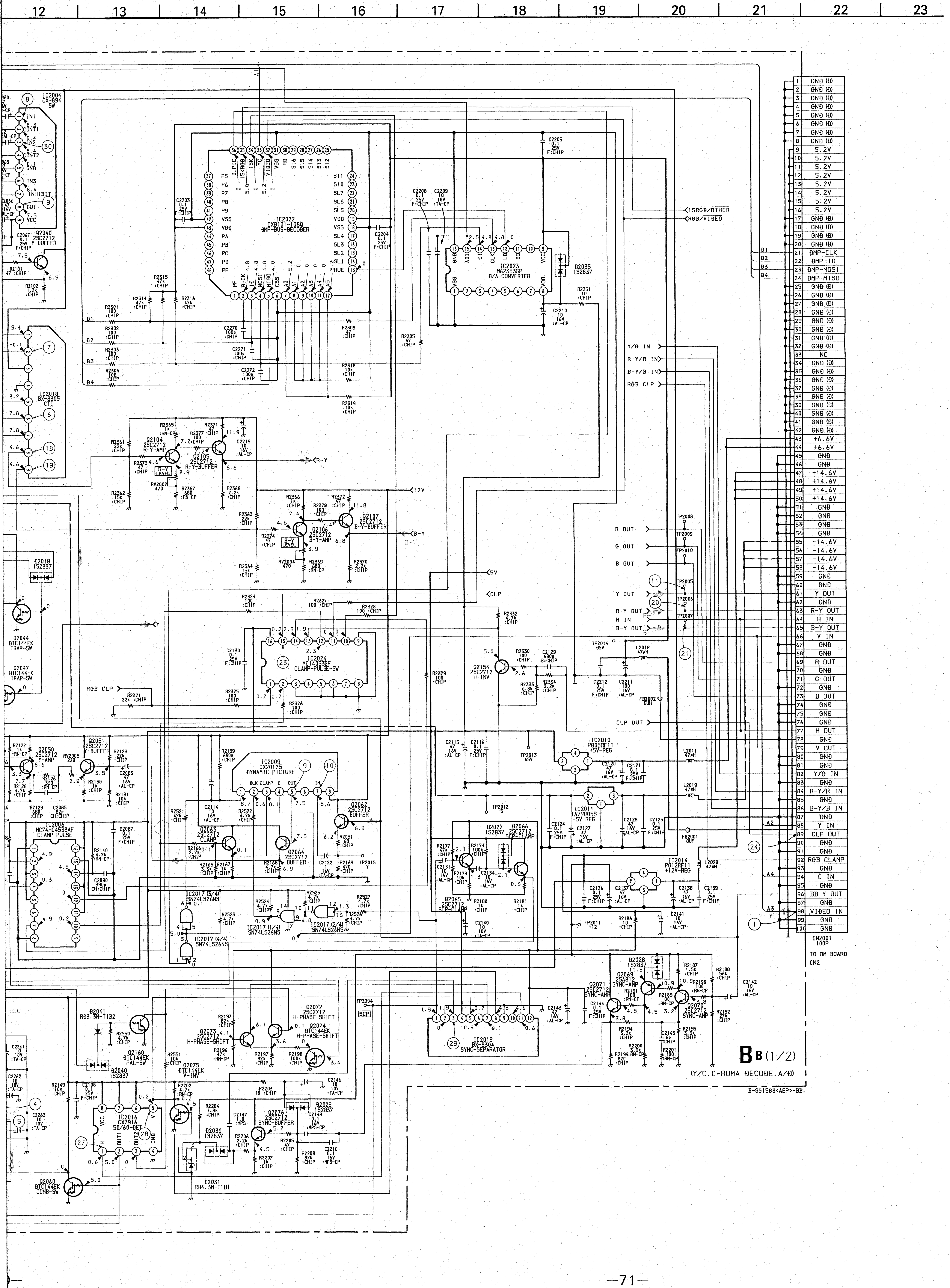
19
VCC
OUT
GND
PAL CONT
SECAM CONT
BP2002
Q2030 2SC2712 Y-BUFFER
DL2001 SDL-4941
Q2031 2SC2712 B/W-BUFFER
Q2032 2SA1162 Y-BUFFER
TP2001 GND
IC2004 CX-894 SW
IN1
CONT1
IN2
CONT2
GND
IN3
INHIBIT
OUT
VCC
Q2040 2SC2712 Y-BUFFER
Q2033 2SC2712 Y-BUFFER
Q2034 2SC2712 Y-AMP
Q2035 2SC2712 Y-AMP
D2011 1S2837
D2013 1S2835
D2012 1S2837
D2014 1S2837
Q2036 DTC144EK Y-SW
Q2037 DTC144EK Y-SW
Q2038 DTC144EK Y-SW
IC2022 CXD101-108Q DMP-BUS-DECODER
P5
P6
P7
P8
P9
VSS
VDD
PA
PB
PC
PD
PE
S11
S10
SL7
SL6
SL5
VDD
VSS
SL4
SL3
SL2
SL1
HUE
D.PIC
TSKRGB
TSK
YC
VIDEO
VSS
RD
S16
S15
S14
S13
S12
PF
D-CK
LD
MOSI
MISO
CSS
A0
A1
A2
A3
A4
A5
IC2023 M62353GP D/A-CONVERTER
D2035 1S2837
Y/G IN
R-Y/R IN
B-Y/B IN
RGB CLP
IC2018 BX-8305 CTI
D2015 1S2837
D2017 RD3.3M-T1B2
D2016 1S2837
Q2039 DTC144EK Y-SW
Q2104 2SC2712 R-Y-AMP
Q2105 2SC2712 R-Y-BUFFER
R-Y LEVEL
RV2002 470
R-Y
12V
Q2106 2SC2712 B-Y-AMP
Q2107 2SC2712 B-Y-BUFFER
B-Y LEVEL
RV2004 470
B-Y
R OUT
G OUT
B OUT
Y OUT
R-Y OUT
H IN
B-Y OUT
5V
CLP
Y
Q2041 2SC2712 TRAP-SW
Q2046 2SC2712 TRAP-SW
Q2044 DTC144EK TRAP-SW
Q2047 DTC144EK TRAP-SW
D2018 1S2837
D2019 1S2837
IC2024 MC14053BF CLAMP-PULSE-SW
RGB CLP
Q2154 2SC2712 H-INV
TP2014 B5V
L2018 47µH
FB2002 0UH
CLP OUT
IC2010 PQ05RF11 +5V-REG
TP2013 A5V
Q2108 2SC2712 BUFFER
VIDEO
Q2048 2SC2712 Y-BUFFER
Q2050 2SC2712 Y-AMP
Q2051 2SC2712 Y-BUFFER
RV2005 220
IC2006 MC74HC4538AF CLAMP-PULSE
IC2009 CX20125 DYNAMIC-PICTURE
BLK CLAMP
OUT
IN
Q2062 2SC2712 BUFFER
Q2063 2SC2712 CLAMP
Q2064 2SC2712 BUFFER
TP2015 Y
IC2017 (3/4) SN74LS26NS
IC2017 (4/4) SN74LS26NS
IC2017 (1/4) SN74LS26NS
IC2017 (2/4) SN74LS26NS
IC2011 TA79005S -5V-REG
TP2012 -5
D2027 1S2837
Q2066 2SC2712 SCP-CLAMP
Q2065 2SC2712 SCP-CLAMP
TP2011 +12
L2014 4.7mH
L2015 4.7mH
IC2007 SBX1745-01 COMB-FILTER
D GND
NC
AG REF
VRB
VRT
A GND
Y IN
CLK
A VDD
D GND
Y0
BPF
A GND
THR
C0
PL/NT
BA REF
A GND
D2041 RD3.3M-T1B2
Q2160 DTC144EK PAL-SW
D2040 1S2837
Q2075 DTC144EK V-INV
IC2016 CX7916 50/60-DET
VCC
OUT1
OUT2
GND
Q2060 DTC144EK COMB-SW
Q2072 2SC2712 H-PHASE-SHIFT
Q2073 2SC2712 H-PHASE-SHIFT
Q2074 DTC144EK H-PHASE-SHIFT
Q2076 2SC2712 SYNC-BUFFER
D2029 1S2837
D2030 1S2837
D2031 RD4.3M-T1B1
TP2004 SCP
IC2019 BX-8304 SYNC-SEPARATOR
D2028 1S2837
Q2069 2SA812 SYNC-AMP
Q2071 2SC2712 SYNC-AMP
Q2058 2SC2712 C-BUFFER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23
IC2004 CX-894 SW
IC2018 BX-8305 CTI
IC2022 CX8101-108Q ĐMP-BUS-ĐECOĐER
IC2023 M62353GP Đ/A-CONVERTER
D2035 1S2837
C2205 0.1 25V F:CHIP
Q2040 2SC2712 Y-BUFFER
Q2104 2SC2712 R-Y-AMP
Q2105 2SC2712 R-Y-BUFFER
Q2106 2SC2712 B-Y-AMP
Q2107 2SC2712 B-Y-BUFFER
R-Y LEVEL
B-Y LEVEL
RV2002 470
RV2004 470
R-Y
B-Y
12V
15RGB/OTHER
RGB/VIĐEO
Y/G IN
R-Y/R IN
B-Y/B IN
RGB CLP
R OUT
G OUT
B OUT
Y OUT
R-Y OUT
H IN
B-Y OUT
CLP OUT
5V
CLP
Y
D2018 1S2837
Q2044 DTC144EK TRAP-SW
Q2047 DTC144EK TRAP-SW
IC2024 MC14053BF CLAMP-PULSE-SW
Q2154 2SC2712 H-INV
TP2014 85V
L2018 47μH
FB2002 0UH
IC2010 PQ05RF11 +5V-REG
IC2011 TA79005S -5V-REG
IC2014 PQ12RF11 +12V-REG
L2011 47μH
L2019 47μH
L2020 47μH
FB2001 0UF
TP2013 A5V
TP2012 -5
TP2011 +12
Q2050 2SC2712 Y-AMP
Q2051 2SC2712 Y-BUFFER
RV2005 220
IC2009 CX20125 ĐYNAMIC-PICTURE
BLK CLAMP
OUT
IN
Q2062 2SC2712 BUFFER
Q2063 2SC2712 CLAMP
Q2064 2SC2712 BUFFER
IC2006 MC74HC4538AF CLAMP-PULSE
IC2017 (3/4) SN74LS26NS
IC2017 (4/4) SN74LS26NS
IC2017 (1/4) SN74LS26NS
IC2017 (2/4) SN74LS26NS
D2027 1S2837
Q2066 2SC2712 SCP-CLAMP
Q2065 2SC2712 SCP-CLAMP
TP2015 Y
TP2004 SCP
D2041 RD3.3M-T1B2
Q2160 DTC144EK PAL-SW
D2040 1S2837
Q2072 2SC2712 H-PHASE-SHIFT
Q2073 2SC2712 H-PHASE-SHIFT
Q2074 DTC144EK H-PHASE-SHIFT
Q2075 DTC144EK V-INV
IC2016 CX7916 50/60-DET
Q2060 DTC144EK COMB-SW
Q2076 2SC2712 SYNC-BUFFER
D2029 1S2837
D2030 1S2837
D2031 RD4.3M-T1B1
IC2019 BX-8304 SYNC-SEPARATOR
D2028 1S2837
Q2069 2SA812 SYNC-AMP
Q2071 2SC2712 SYNC-AMP
Q2070 2SC2712 SYNC-AMP
TP2005
TP2006
TP2007
TP2008
TP2009
TP2010
A1
A2
A3
A4
Đ1
Đ2
Đ3
Đ4
1 GNĐ (Đ)
2 GNĐ (Đ)
3 GNĐ (Đ)
4 GNĐ (Đ)
5 GNĐ (Đ)
6 GNĐ (Đ)
7 GNĐ (Đ)
8 GNĐ (Đ)
9 5.2V
10 5.2V
11 5.2V
12 5.2V
13 5.2V
14 5.2V
15 5.2V
16 5.2V
17 GNĐ (Đ)
18 GNĐ (Đ)
19 GNĐ (Đ)
20 GNĐ (Đ)
21 ĐMP-CLK
22 ĐMP-IĐ
23 ĐMP-MOSI
24 ĐMP-MISO
25 GNĐ (Đ)
26 GNĐ (Đ)
27 GNĐ (Đ)
28 GNĐ (Đ)
29 GNĐ (Đ)
30 GNĐ (Đ)
31 GNĐ (Đ)
32 GNĐ (Đ)
33 NC
34 GNĐ (Đ)
35 GNĐ (Đ)
36 GNĐ (Đ)
37 GNĐ (Đ)
38 GNĐ (Đ)
39 GNĐ (Đ)
40 GNĐ (Đ)
41 GNĐ (Đ)
42 GNĐ (Đ)
43 +6.6V
44 +6.6V
45 GNĐ
46 GNĐ
47 +14.6V
48 +14.6V
49 +14.6V
50 +14.6V
51 GNĐ
52 GNĐ
53 GNĐ
54 GNĐ
55 -14.6V
56 -14.6V
57 -14.6V
58 -14.6V
59 GNĐ
60 GNĐ
61 Y OUT
62 GNĐ
63 R-Y OUT
64 H IN
65 B-Y OUT
66 V IN
67 GNĐ
68 GNĐ
69 R OUT
70 GNĐ
71 G OUT
72 GNĐ
73 B OUT
74 GNĐ
75 GNĐ
76 GNĐ
77 H OUT
78 GNĐ
79 V OUT
80 GNĐ
81 GNĐ
82 Y/G IN
83 GNĐ
84 R-Y/R IN
85 GNĐ
86 B-Y/B IN
87 GNĐ
88 Y IN
89 CLP OUT
90 GNĐ
91 GNĐ
92 RGB CLAMP
93 GNĐ
94 C IN
95 GNĐ
96 BB Y OUT
97 GNĐ
98 VIĐEO IN
99 GNĐ
100 GNĐ
CN2001 100P
TO BM BOARĐ CN2

B B (1/2)

(Y/C.CHROMA ĐECOĐE.A/Đ)

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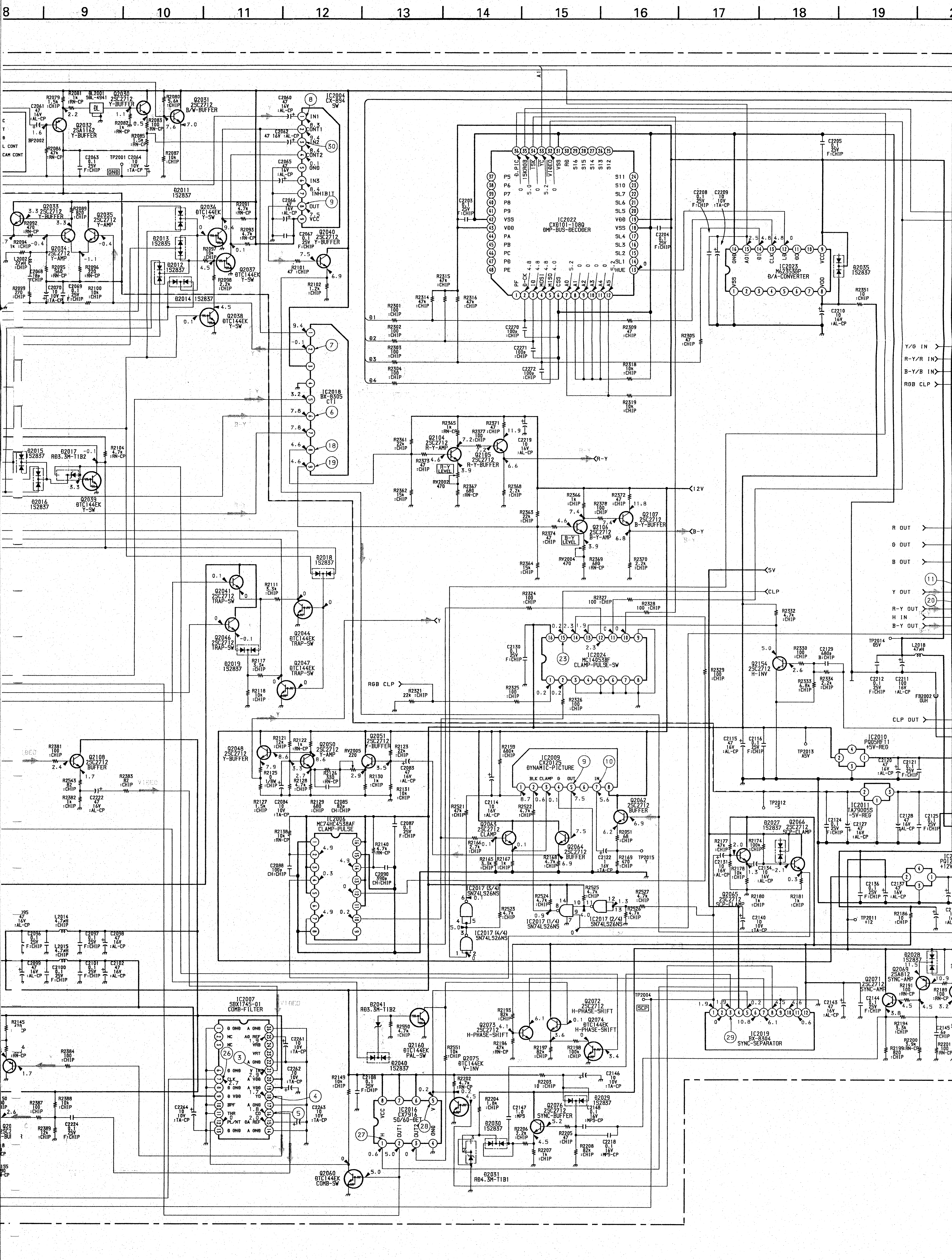
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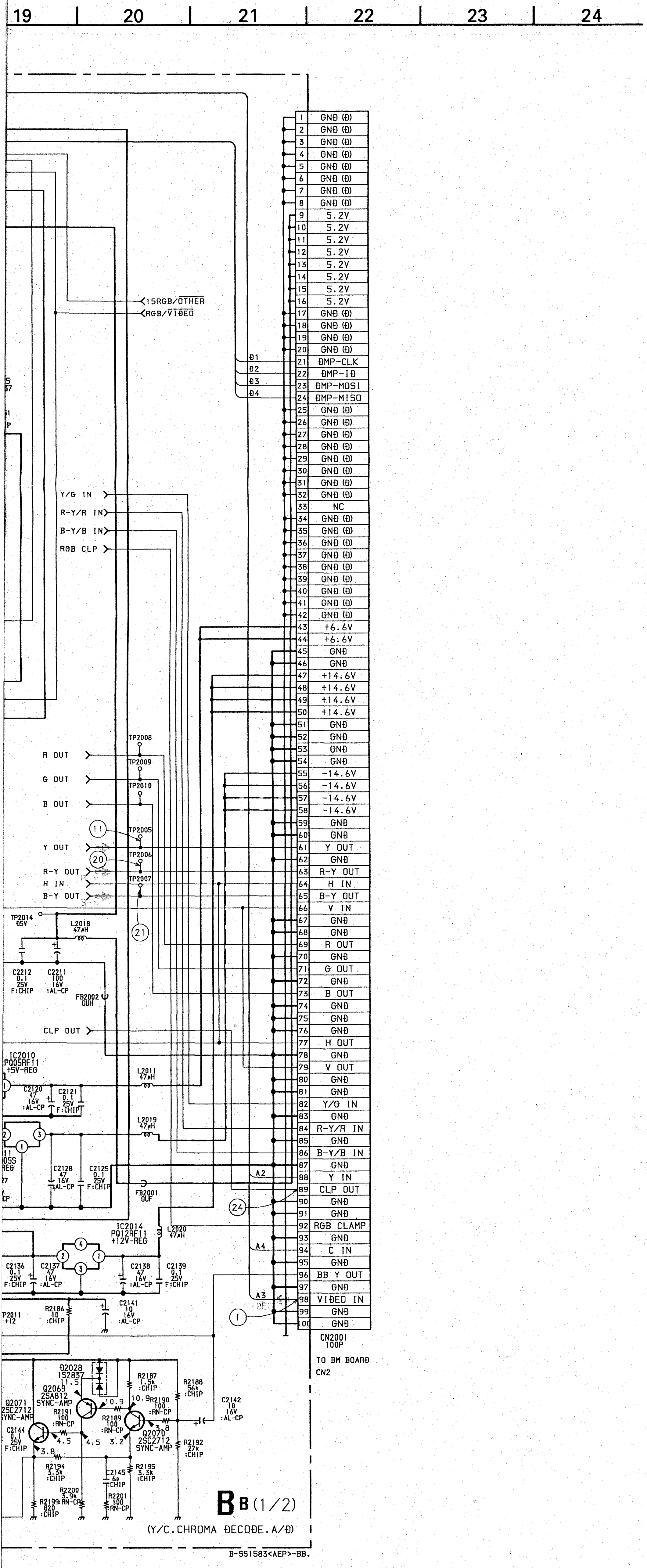
IC2004 CX-894 SW
IC2018 BX-8305 CTI
IC2022 CXD101-108Q DMP-BUS-DECODER
IC2023 M62353GP D/A-CONVERTER
IC2024 MC14053BF CLAMP-PULSE-SW
IC2009 CX20125 DYNAMIC-PICTURE
IC2006 MC74HC4538AF CLAMP-PULSE
IC2017 SN74LS26NS
IC2007 SBX1745-01 COMB-FILTER
IC2016 CX7916 50/60-DET
IC2019 BX-8304 SYNC-SEPARATOR
IC2010 PQ05RF11 +5V-REG
IC2011 TA79005S -5V-REG
Q2030 2SC2712 Y-BUFFER
Q2031 2SC2712 B/W-BUFFER
Q2032 2SA1162 Y-BUFFER
Q2033 2SC2712 Y-BUFFER
Q2034 2SC2712 Y-AMP
Q2035 2SC2712 Y-AMP
Q2036 DTC144EK Y-SW
Q2037 DTC144EK Y-SW
Q2038 DTC144EK Y-SW
Q2039 DTC144EK Y-SW
Q2040 2SC2712 Y-BUFFER
Q2041 2SC2712 TRAP-SW
Q2044 DTC144EK TRAP-SW
Q2046 2SC2712 TRAP-SW
Q2047 DTC144EK TRAP-SW
Q2048 2SC2712 Y-BUFFER
Q2050 2SC2712 Y-AMP
Q2051 2SC2712 Y-BUFFER
Q2062 2SC2712 BUFFER
Q2063 2SC2712 CLAMP
Q2064 2SC2712 BUFFER
Q2065 2SC2712 SCP-CLAMP
Q2066 2SC2712 SCP-CLAMP
Q2069 2SA812 SYNC-AMP
Q2071 2SC2712 SYNC-AMP
Q2072 2SC2712 H-PHASE-SHIFT
Q2073 2SC2712 H-PHASE-SHIFT
Q2074 DTC144EK H-PHASE-SHIFT
Q2075 DTC144EK V-INV
Q2076 2SC2712 SYNC-BUFFER
Q2060 DTC144EK COMB-SW
Q2160 DTC144EK PAL-SW
Q2104 2SC2712 R-Y-AMP
Q2105 2SC2712 R-Y-BUFFER
Q2106 2SC2712 B-Y-AMP
Q2107 2SC2712 B-Y-BUFFER
Q2108 2SC2712 BUFFER
Q2156 2SC2712 H-INV
D2017 RD3.3M-T1B2
D2041 RD3.3M-T1B2
D2031 RD4.3M-T1B1
RV2002 R-Y LEVEL
RV2004 B-Y LEVEL
RV2005
Y/G IN
R-Y/R IN
B-Y/B IN
RGB CLP
R-Y
B-Y
12V
5V
CLP
Y
RGB CLP
R OUT
G OUT
B OUT
Y OUT
R-Y OUT
H IN
B-Y OUT
CLP OUT
TP2001 GND
TP2004 SCP
TP2011 +12
TP2012 -5
TP2013 A5V
TP2014 Q5V
TP2015 Y
VIDEO
L CONT
CAM CONT
BP2002
FB2002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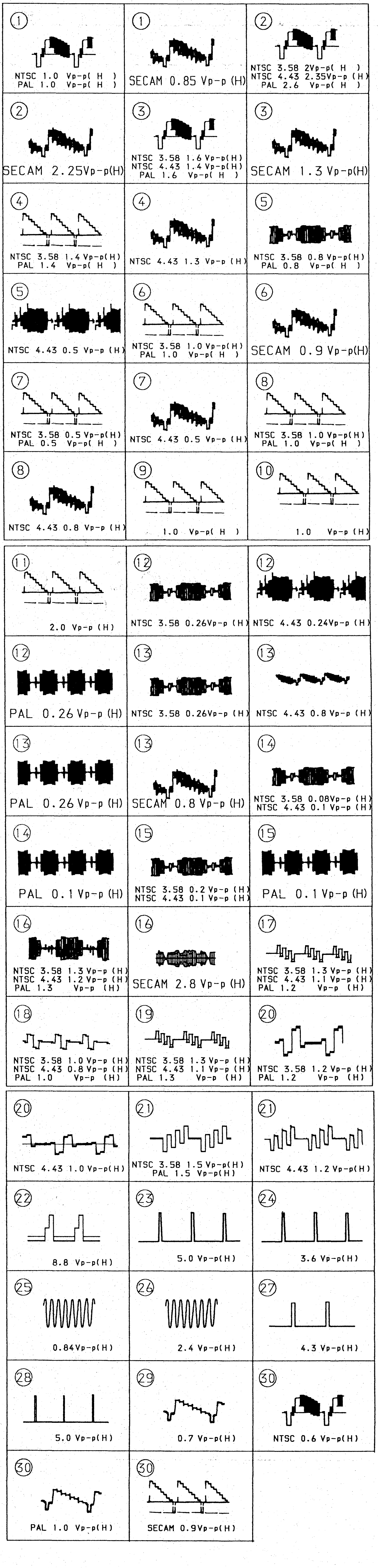
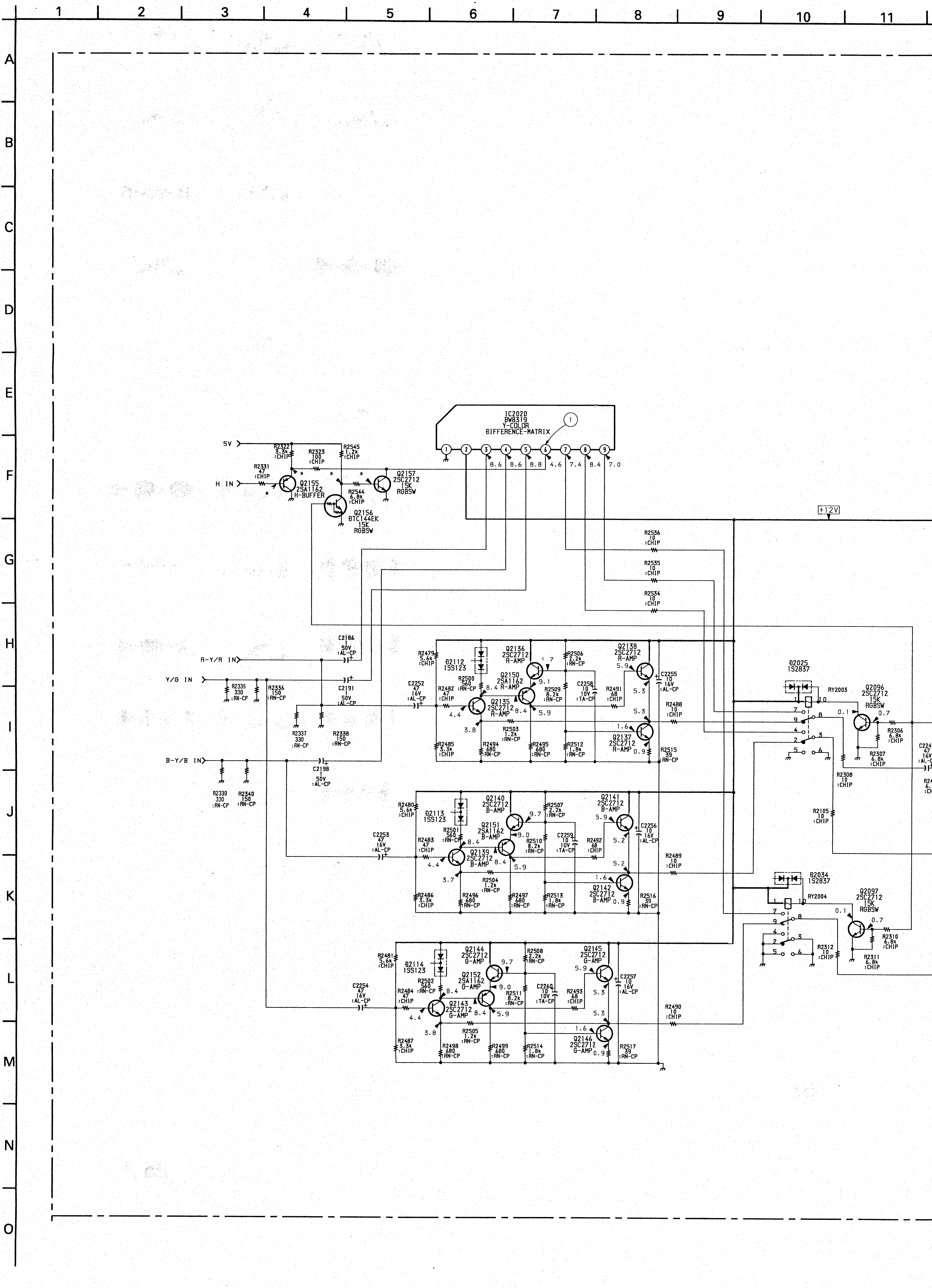
24
1 GND (D)
2 GND (D)
3 GND (D)
4 GND (D)
5 GND (D)
6 GND (D)
7 GND (D)
8 GND (D)
9 5.2V
10 5.2V
11 5.2V
12 5.2V
13 5.2V
14 5.2V
15 5.2V
16 5.2V
17 GND (D)
18 GND (D)
19 GND (D)
20 GND (D)
21 DMP-CLK
22 DMP-ID
23 DMP-MOSI
24 DMP-MISO
25 GND (D)
26 GND (D)
27 GND (D)
28 GND (D)
29 GND (D)
30 GND (D)
31 GND (D)
32 GND (D)
33 NC
34 GND (D)
35 GND (D)
36 GND (D)
37 GND (D)
38 GND (D)
39 GND (D)
40 GND (D)
41 GND (D)
42 GND (D)
43 +6.6V
44 +6.6V
45 GND
46 GND
47 +14.6V
48 +14.6V
49 +14.6V
50 +14.6V
51 GND
52 GND
53 GND
54 GND
55 -14.6V
56 -14.6V
57 -14.6V
58 -14.6V
59 GND
60 GND
61 Y OUT
62 GND
63 R-Y OUT
64 H IN
65 B-Y OUT
66 V IN
67 GND
68 GND
69 R OUT
70 GND
71 G OUT
72 GND
73 B OUT
74 GND
75 GND
76 GND
77 H OUT
78 GND
79 V OUT
80 GND
81 GND
82 Y/G IN
83 GND
84 R-Y/R IN
85 GND
86 B-Y/B IN
87 GND
88 Y IN
89 CLP OUT
90 GND
91 GND
92 RGB CLAMP
93 GND
94 C IN
95 GND
96 BB Y OUT
97 GND
98 VIDEO IN
99 GND
100 GND
CN2001 100P
TO BM BOARD CN2
15RGB/OTHER
RGB/VIDEO
D1
D2
D3
D4
Y/G IN
R-Y/R IN
B-Y/B IN
RGB CLP
R OUT
G OUT
B OUT
Y OUT
R-Y OUT
H IN
B-Y OUT
CLP OUT
TP2008
TP2009
TP2010
TP2005
TP2006
TP2007
TP2014 05V
TP2011 +12
⑪
⑳
㉑
㉔
①
VIDEO
A2
A3
A4
L2018 47µH
C2212 0.1 25V F:CHIP
C2211 100 16V :AL-CP
FB2002 0UH
IC2010 PQ05RF11 +5V-REG
L2011 47µH
C2120 47 16V :AL-CP
C2121 0.1 25V F:CHIP
L2019 47µH
C2128 47 16V :AL-CP
C2125 0.1 25V F:CHIP
FB2001 0UF
IC2014 PQ12RF11 +12V-REG
L2020 47µH
C2136 0.1 25V F:CHIP
C2137 47 16V :AL-CP
C2138 47 16V :AL-CP
C2139 0.1 25V F:CHIP
R2186 10 :CHIP
C2141 10 16V :AL-CP
D2028 1SS357
Q2069 2SA812 SYNC-AMP
R2187 1.5k :CHIP
R2188 56k :CHIP
Q2071 2SC2712 SYNC-AMP
R2191 100 :RN-CP
R2190 100 :RN-CP
R2189 100 :RN-CP
Q2070 2SC2712 SYNC-AMP
C2142 10 16V :AL-CP
C2144 0.1 25V F:CHIP
R2192 27k :CHIP
R2194 3.3k :CHIP
C2145 6p :CHIP
R2195 3.3k :CHIP
R2200 3.9k
R2199 820 :RN-CP :CHIP
R2201 100 :RN-CP
11.5
10.9
10.9
4.5
4.5
3.2
3.8
3.8
BB(1/2)
(Y/C.CHROMA DECODE.A/D)
B-SS1583<AEP>-BB.

BB (1/2) BOARD


① NTSC 1.0 Vp-p(H) PAL 1.0 Vp-p(H)
① SECAM 0.85 Vp-p (H)
② NTSC 3.58 2Vp-p(H) NTSC 4.43 2.35Vp-p (H) PAL 2.6 Vp-p(H)
② SECAM 2.25Vp-p(H)
③ NTSC 3.58 1.6 Vp-p(H) NTSC 4.43 1.4 Vp-p(H) PAL 1.6 Vp-p(H)
③ SECAM 1.3 Vp-p(H)
④ NTSC 3.58 1.4 Vp-p(H) PAL 1.4 Vp-p(H)
④ NTSC 4.43 1.3 Vp-p (H)
⑤ NTSC 3.58 0.8 Vp-p(H) PAL 0.8 Vp-p(H)
⑤ NTSC 4.43 0.5 Vp-p (H)
⑥ NTSC 3.58 1.0 Vp-p(H) PAL 1.0 Vp-p(H)
⑥ SECAM 0.9 Vp-p(H)
⑦ NTSC 3.58 0.5 Vp-p(H) PAL 0.5 Vp-p(H)
⑦ NTSC 4.43 0.5 Vp-p (H)
⑧ NTSC 3.58 1.0 Vp-p(H) PAL 1.0 Vp-p(H)
⑧ NTSC 4.43 0.8 Vp-p (H)
⑨ 1.0 Vp-p(H)
⑩ 1.0 Vp-p (H)
⑪ 2.0 Vp-p (H)
⑫ NTSC 3.58 0.26Vp-p (H)
⑫ NTSC 4.43 0.24Vp-p (H)
⑫ PAL 0.26 Vp-p (H)
⑬ NTSC 3.58 0.26Vp-p (H)
⑬ NTSC 4.43 0.8 Vp-p (H)
⑬ PAL 0.26 Vp-p (H)
⑬ SECAM 0.8 Vp-p (H)
⑭ NTSC 3.58 0.08Vp-p (H) NTSC 4.43 0.1 Vp-p (H)
⑭ PAL 0.1 Vp-p (H)
⑮ NTSC 3.58 0.2 Vp-p (H) NTSC 4.43 0.1 Vp-p (H)
⑮ PAL 0.1 Vp-p (H)
⑯ NTSC 3.58 1.3 Vp-p (H) NTSC 4.43 1.2 Vp-p (H) PAL 1.3 Vp-p (H)
⑯ SECAM 2.8 Vp-p (H)
⑰ NTSC 3.58 1.3 Vp-p (H) NTSC 4.43 1.1 Vp-p (H) PAL 1.2 Vp-p (H)
⑱ NTSC 3.58 1.0 Vp-p (H) NTSC 4.43 0.8 Vp-p (H) PAL 1.0 Vp-p (H)
⑲ NTSC 3.58 1.3 Vp-p (H) NTSC 4.43 1.1 Vp-p (H) PAL 1.3 Vp-p (H)
⑳ NTSC 3.58 1.2 Vp-p (H) PAL 1.2 Vp-p (H)
⑳ NTSC 4.43 1.0 Vp-p(H)
㉑ NTSC 3.58 1.5 Vp-p(H) PAL 1.5 Vp-p(H)
㉑ NTSC 4.43 1.2 Vp-p(H)
㉒ 8.8 Vp-p(H)
㉓ 5.0 Vp-p(H)
㉔ 3.6 Vp-p(H)
㉕ 0.84Vp-p(H)
㉖ 2.4 Vp-p(H)
㉗ 4.3 Vp-p(H)
㉘ 5.0 Vp-p(H)
㉙ 0.7 Vp-p(H)
㉚ NTSC 0.6 Vp-p(H)
㉚ PAL 1.0 Vp-p(H)
㉚ SECAM 0.9Vp-p(H)


IC2020
BW8319
Y-COLOR
DIFFERENCE-MATRIX
5V
H IN
R-Y/R IN
Y/G IN
B-Y/B IN
+12V
Q2155
2SA1162
H-BUFFER
Q2156
DTC144EK
15K
RGBSW
Q2157
2SC2712
15K
RGBSW
Q2136
2SC2712
R-AMP
Q2138
2SC2712
R-AMP
Q2150
2SA1162
R-AMP
Q2135
2SC2712
R-AMP
Q2137
2SC2712
R-AMP
D2112
1SS123
Q2140
2SC2712
B-AMP
Q2141
2SC2712
B-AMP
Q2151
2SA1162
B-AMP
Q2139
2SC2712
B-AMP
Q2142
2SC2712
B-AMP
D2113
1SS123
Q2144
2SC2712
G-AMP
Q2145
2SC2712
G-AMP
Q2152
2SA1162
G-AMP
Q2143
2SC2712
G-AMP
Q2146
2SC2712
G-AMP
D2114
1SS123
D2025
1S2837
RY2003
Q2096
2SC2712
15K
RGBSW
D2034
1S2837
RY2004
Q2097
2SC2712
15K
RGBSW

Schematic diagram

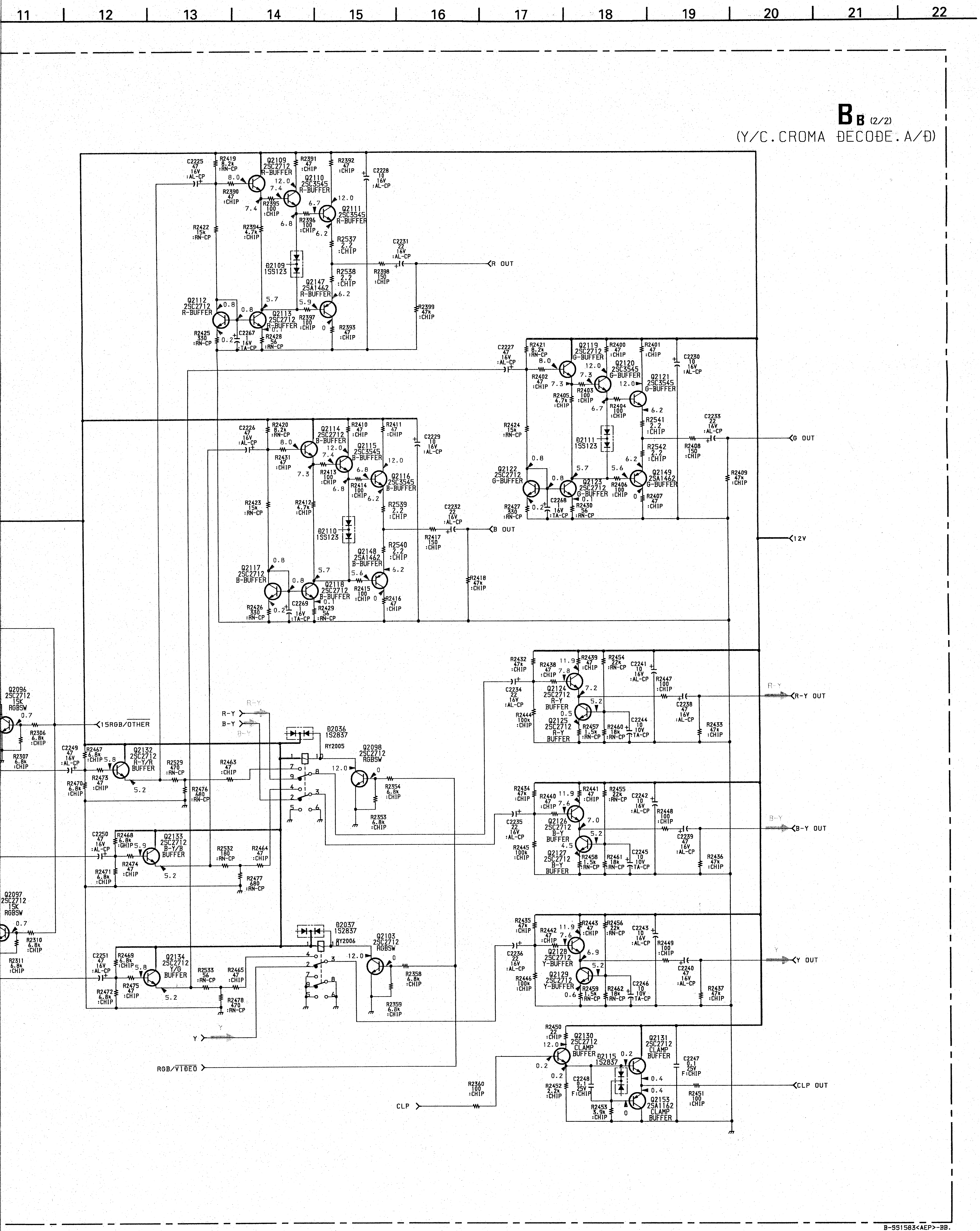
← BB (1/2) board

Schematic diagram

BB (2/2) board ➡

B B (2/2)

(Y/C.CROMA DECODE.A/D)


11
12
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17
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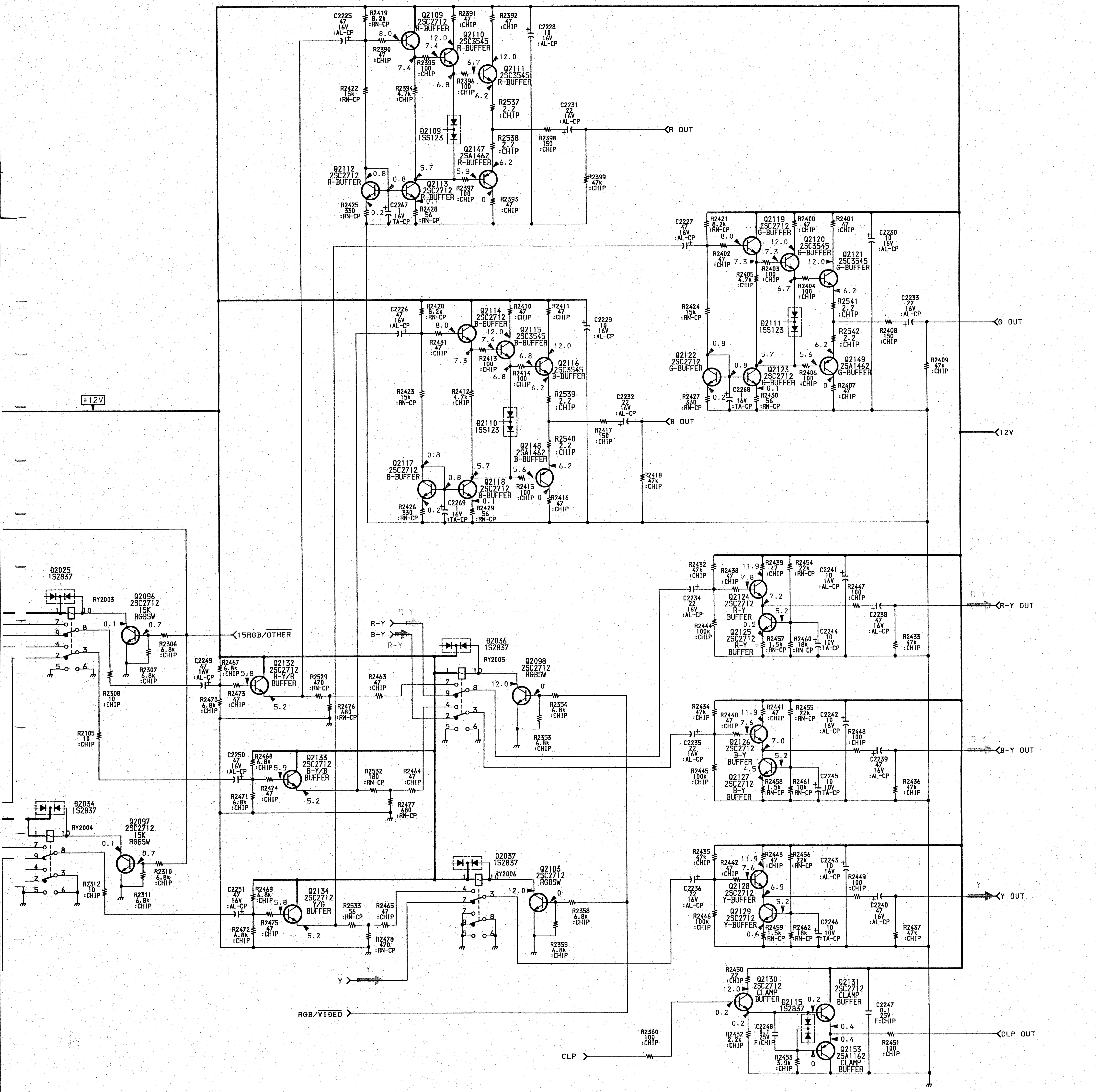
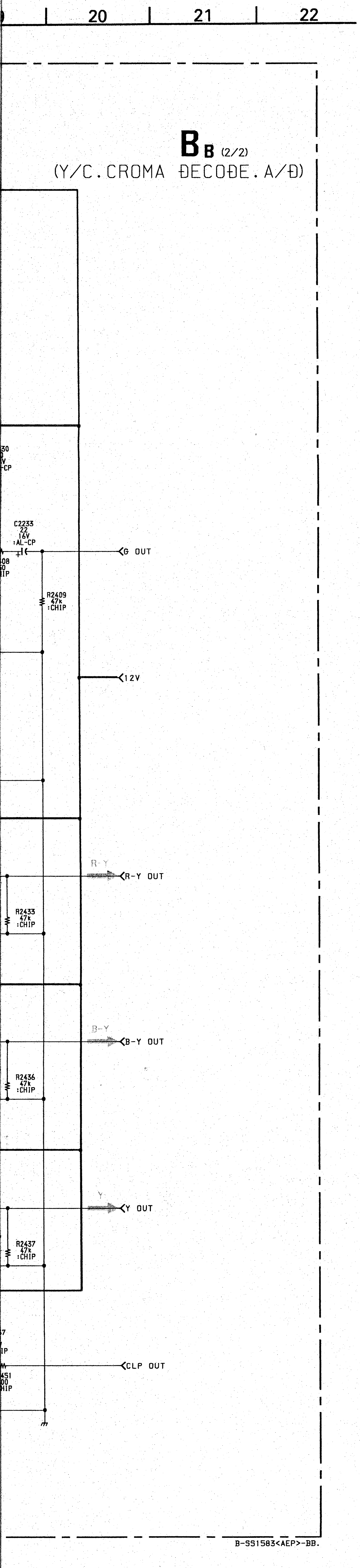
20
21
22
Q2109 2SC2712 R-BUFFER
Q2110 2SC3545 R-BUFFER
Q2111 2SC3545 R-BUFFER
Q2112 2SC2712 R-BUFFER
Q2113 2SC2712 R-BUFFER
Q2147 2SA1462 R-BUFFER
D2109 1SS123
R OUT
Q2119 2SC2712 G-BUFFER
Q2120 2SC3545 G-BUFFER
Q2121 2SC3545 G-BUFFER
Q2122 2SC2712 G-BUFFER
Q2123 2SC2712 G-BUFFER
Q2149 2SA1462 G-BUFFER
D2111 1SS123
G OUT
Q2114 2SC2712 B-BUFFER
Q2115 2SC3545 B-BUFFER
Q2116 2SC3545 B-BUFFER
Q2117 2SC2712 B-BUFFER
Q2118 2SC2712 B-BUFFER
Q2148 2SA1462 B-BUFFER
D2110 1SS123
B OUT
12V
Q2124 2SC2712 R-Y BUFFER
Q2125 2SC2712 R-Y BUFFER
R-Y OUT
Q2126 2SC2712 B-Y BUFFER
Q2127 2SC2712 B-Y BUFFER
B-Y OUT
Q2128 2SC2712 Y-BUFFER
Q2129 2SC2712 Y-BUFFER
Y OUT
Q2130 2SC2712 CLAMP BUFFER
Q2131 2SC2712 CLAMP BUFFER
Q2153 2SA1162 CLAMP BUFFER
D2115 1S2837
CLP OUT
CLP
Q2096 2SC2712 15K RGBSW
Q2097 2SC2712 15K RGBSW
15RGB/OTHER
Q2132 2SC2712 R-Y/R BUFFER
Q2133 2SC2712 B-Y/B BUFFER
Q2134 2SC2712 Y/G BUFFER
R-Y
B-Y
Y
D2036 1S2837
RY2005
Q2098 2SC2712 RGBSW
D2037 1S2837
RY2006
Q2103 2SC2712 RGBSW
RGB/VIDEO

B-SS1583<AEP>-BB.

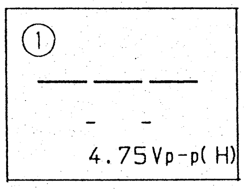
B B (2/

(Y/C.CROMA DECOD

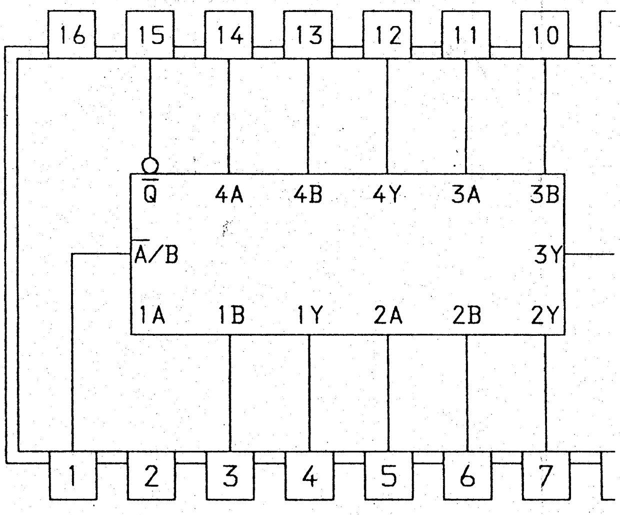

R OUT
G OUT
B OUT
12V
R-Y OUT
B-Y OUT
Y OUT
CLP OUT
+12V
15RGB/OTHER
R-Y
B-Y
Y
RGB/VIDEO
CLP
Q2109 2SC2712 R-BUFFER
Q2110 2SC3545 R-BUFFER
Q2111 2SC3545 R-BUFFER
Q2112 2SC2712 R-BUFFER
Q2113 2SC2712 R-BUFFER
Q2147 2SA1462 R-BUFFER
D2109 1SS123
Q2114 2SC2712 B-BUFFER
Q2115 2SC3545 B-BUFFER
Q2116 2SC3545 B-BUFFER
Q2117 2SC2712 B-BUFFER
Q2118 2SC2712 B-BUFFER
Q2148 2SA1462 B-BUFFER
D2110 1SS123
Q2119 2SC2712 G-BUFFER
Q2120 2SC3545 G-BUFFER
Q2121 2SC3545 G-BUFFER
Q2122 2SC2712 G-BUFFER
Q2123 2SC2712 G-BUFFER
Q2149 2SA1462 G-BUFFER
D2111 1SS123
D2025 1S2837
RY2003
Q2096 2SC2712 15K RGBSW
D2034 1S2837
RY2004
Q2097 2SC2712 15K RGBSW
Q2132 2SC2712 R-Y/R BUFFER
Q2133 2SC2712 B-Y/B BUFFER
Q2134 2SC2712 Y/G BUFFER
D2036 1S2837
RY2005
Q2098 2SC2712 RGBSW
D2037 1S2837
RY2006
Q2103 2SC2712 RGBSW
Q2124 2SC2712 R-Y BUFFER
Q2125 2SC2712 R-Y BUFFER
Q2126 2SC2712 B-Y BUFFER
Q2127 2SC2712 B-Y BUFFER
Q2128 2SC2712 Y-BUFFER
Q2129 2SC2712 Y-BUFFER
Q2130 2SC2712 CLAMP BUFFER
Q2131 2SC2712 CLAMP BUFFER
Q2153 2SA1162 CLAMP BUFFER
D2115 1S2837


20
21
22
BB (2/2)
(Y/C.CROMA DECODE.A/D)
C2233
22
16V
:AL-CP
G OUT
R2409
47k
:CHIP
12V
R-Y
R-Y OUT
R2433
47k
:CHIP
B-Y
B-Y OUT
R2436
47k
:CHIP
Y
Y OUT
R2437
47k
:CHIP
CLP OUT
B-SS1583<AEP>-BB.

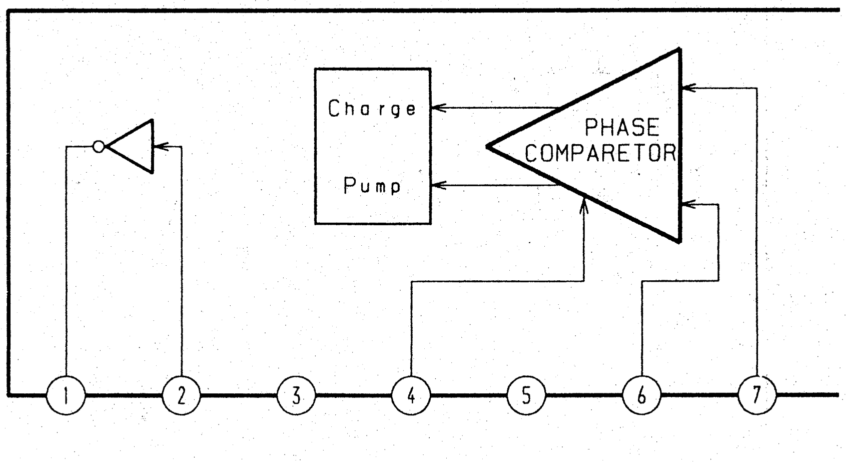
BB (2/2) BOARD



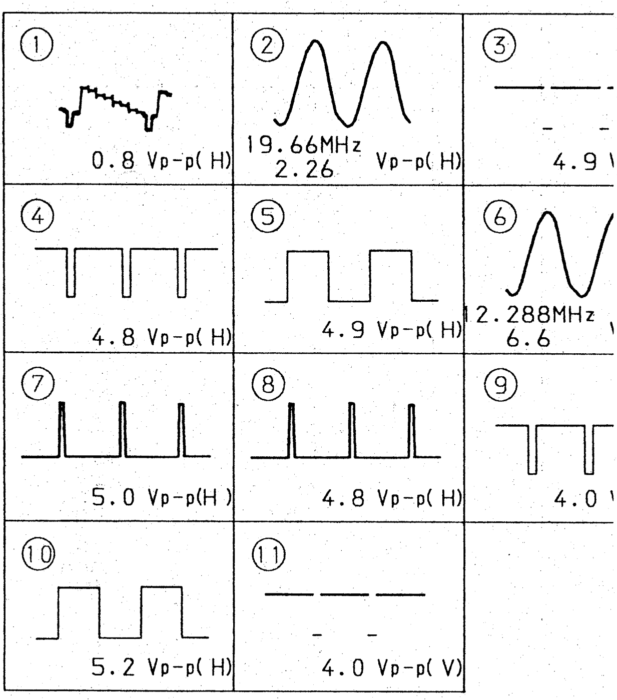
BA (1/2) BOARD IC1014 SN74HC157ANS

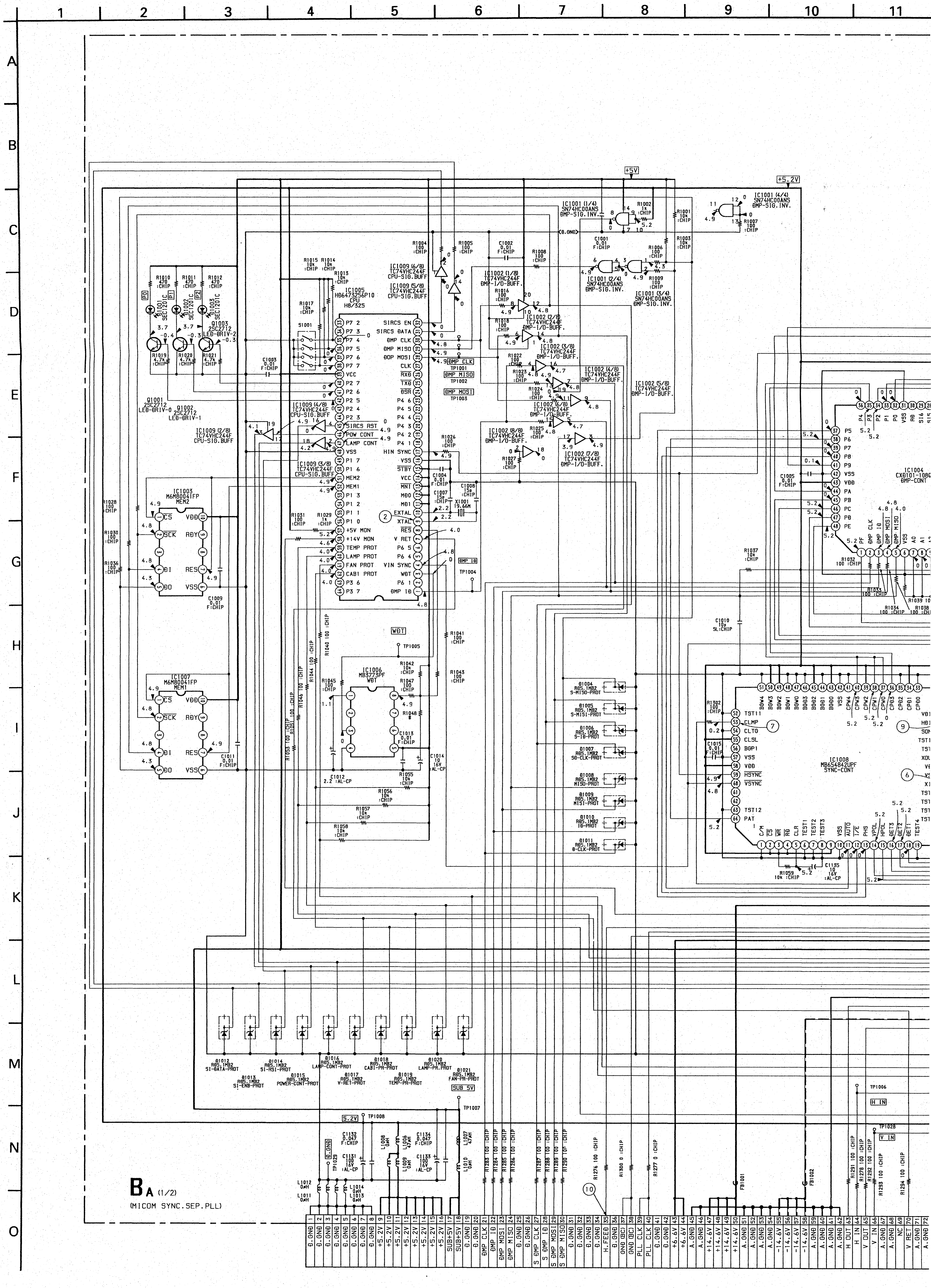

16
15
14
13
12
11
10
Q
4A
4B
4Y
3A
3B
A/B
3Y
1A
1B
1Y
2A
2B
2Y
1
2
3
4
5
6
7

BA (1/2) BOARD IC1027 CX23065A


Charge
Pump
PHASE
COMPARETOR
1
2
3
4
5
6
7

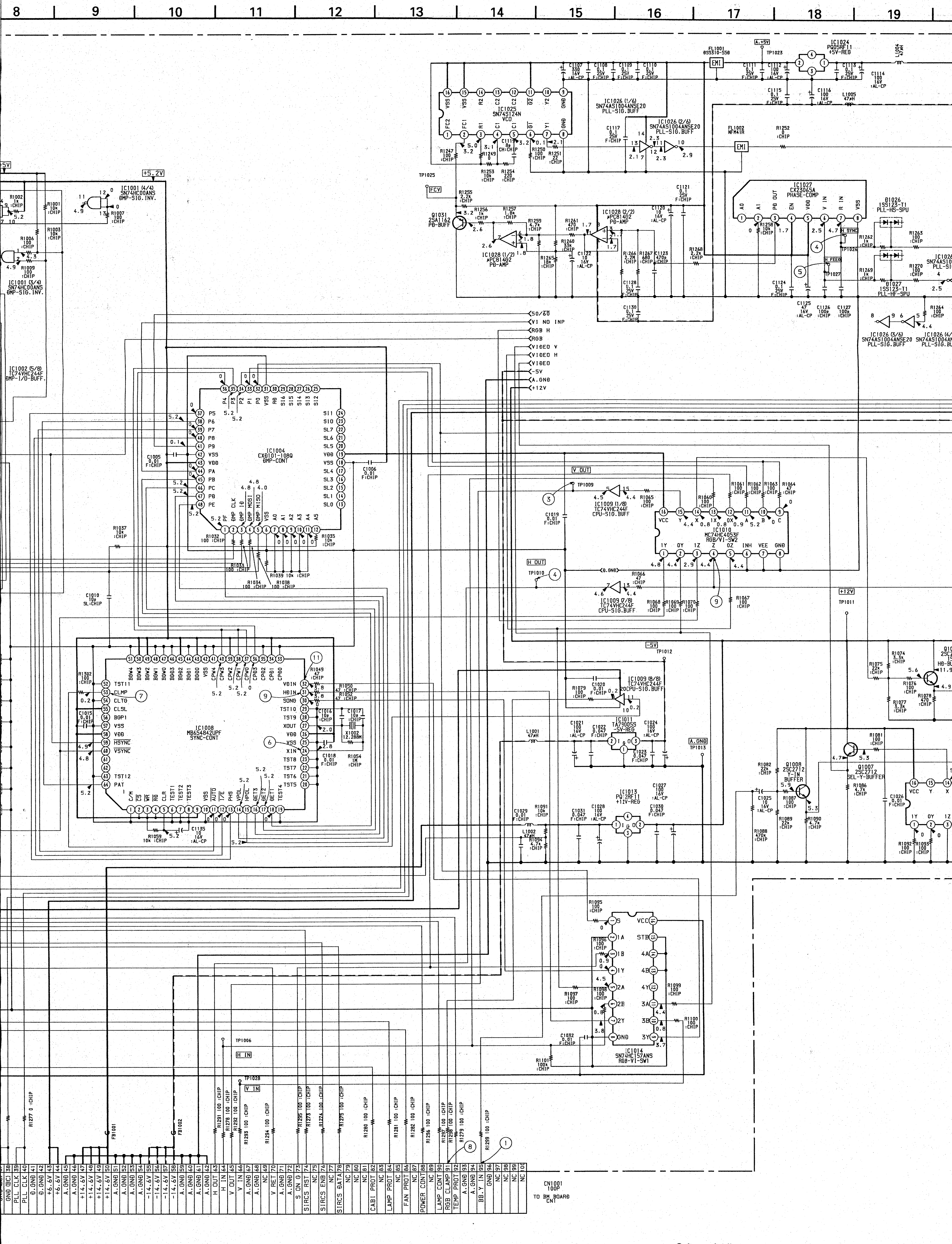
BA (1/2) BOARD


①
0.8 Vp-p(H)
②
19.66MHz
2.26 Vp-p(H)
③
4.9
④
4.8 Vp-p(H)
⑤
4.9 Vp-p(H)
⑥
12.288MHz
6.6
⑦
5.0 Vp-p(H)
⑧
4.8 Vp-p(H)
⑨
4.0
⑩
5.2 Vp-p(H)
⑪
4.0 Vp-p(V)


1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
+5V
+5.2V
IC1001 (1/4) SN74HC00ANS ØMP-SIG. INV.
IC1001 (2/4) SN74HC00ANS ØMP-SIG. INV.
IC1001 (3/4) SN74HC00ANS ØMP-SIG. INV.
IC1001 (4/4) SN74HC00ANS ØMP-SIG. INV.
IC1002 (1/8) TC74VHC244F ØMP-I/O-BUFF.
IC1002 (2/8) TC74VHC244F ØMP-I/O-BUFF.
IC1002 (3/8) TC74VHC244F ØMP-I/O-BUFF.
IC1002 (4/8) TC74VHC244F ØMP-I/O-BUFF.
IC1002 (5/8) TC74VHC244F ØMP-I/O-BUFF.
IC1002 (6/8) TC74VHC244F ØMP-I/O-BUFF.
IC1002 (7/8) TC74VHC244F ØMP-I/O-BUFF.
IC1002 (8/8) TC74VHC244F ØMP-I/O-BUFF.
IC1003 M6M80041FP MEM2
IC1004 CXD101-108Q ØMP-CONT
IC1005 HD6473256P10 CPU H8/325
IC1006 MB3773PF WDT
IC1007 M6M80041FP MEM1
IC1008 MB654842UPF SYNC-CONT
IC1009 (2/8) TC74VHC244F CPU-SIG.BUFF
IC1009 (3/8) TC74VHC244F CPU-SIG.BUFF
IC1009 (4/8) TC74VHC244F CPU-SIG.BUFF
IC1009 (5/8) TC74VHC244F CPU-SIG.BUFF
IC1009 (6/8) TC74VHC244F CPU-SIG.BUFF
Q1001 2SC2712 LED-DRIV-0
Q1002 2SC2712 LED-DRIV-1
Q1003 2SC2712 LED-DRIV-2
D1001 SEC1201C
D1002 SEC1201C
D1003 SEC1201C
S1001
X1001 19.66M
SIRCS EN
SIRCS DATA
ØMP CLK
ØMP MISO
ØDP MOSI
CLK
RXØ
TXØ
ØSR
SIRCS RST
POW CONT
LAMP CONT
HIN SYNC
VSS
STBY
VCC
MNT
MD0
MD1
EXTAL
XTAL
RES
V RET
+5V MON
+14V MON
TEMP PROT
LAMP PROT
FAN PROT
CABI PROT
VIN SYNC
WDT
ØMP IØ
CS
SCK
RDY
DI
DO
RES
VDD
TP1001
TP1002
TP1003
TP1004
TP1005
TP1006
TP1007
TP1008
TP1028
ØMP CLK
ØMP MISO
ØMP MOSI
ØMP IØ
WDT
H IN
V IN
SUB 5V
5.2V
D1004 RD5.1MB2 S-MISO-PROT
D1005 RD5.1MB2 S-MISI-PROT
D1006 RD5.1MB2 S-IØ-PROT
D1007 RD5.1MB2 SØ-CLK-PROT
D1008 RD5.1MB2 MISO-PROT
D1009 RD5.1MB2 MISI-PROT
D1010 RD5.1MB2 IØ-PROT
D1011 RD5.1MB2 Ø-CLK-PROT
D1012 RD5.1MB2 SI-DATA-PROT
D1013 RD5.1MB2 SI-ENB-PROT
D1014 RD5.1MB2 SI-RSI-PROT
D1015 RD5.1MB2 POWER-CONT-PROT
D1016 RD5.1MB2 LAMP-CONT-PROT
D1017 RD5.1MB2 V-RET-PROT
D1018 RD5.1MB2 CABI-PR-PROT
D1019 RD5.1MB2 TEMP-PR-PROT
D1020 RD5.1MB2 LAMP-PR-PROT
D1021 RD5.1MB2 FAN-PR-PROT
FB1001
FB1002
L1007 47µH
L1008 0µH
L1009 0µH
L1010 0µH
L1011 0µH
L1012 0µH
L1013 0µH
L1014 0µH
TST11
CLMP
CLTG
CLSL
BGP1
VSS
VDD
HSYNC
VSYNC
TST12
PAT
D.GND
+5.2V
SUB+5V
ØMP CLK
ØMP IØ
ØMP MOSI
ØMP MISO
S ØMP CLK
S ØMP IØ
S ØMP MOSI
S ØMP MISO
H.FEED
GND (BC)
PLL CLK
+6.6V
A.GND
+14.6V
-14.6V
H OUT
V OUT
V IN
NC
V RET

B A (1/2)

(MICOM SYNC.SEP.PLL)


8
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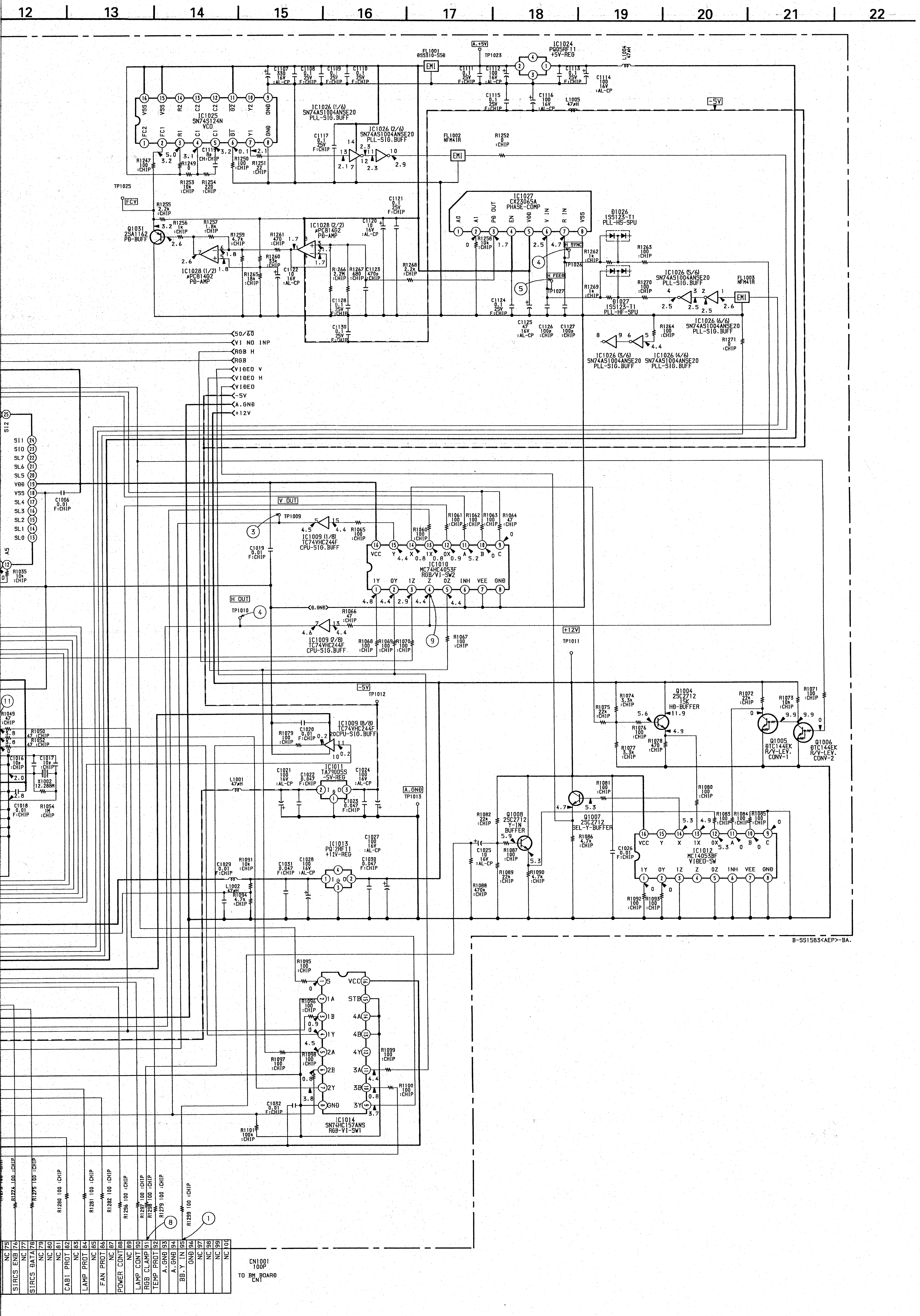
17
18
19
IC1025 SN74S124N VCO
IC1026 (1/6) SN74AS1004ANSE20 PLL-SIG.BUFF
IC1026 (2/6) SN74AS1004ANSE20 PLL-SIG.BUFF
IC1024 PQ05RF11 +5V-REG
FL1001 BSS310-55B
FL1002 NFM41R
EMI
A.+5V
TP1023
TP1025
FCV
Q1031 2SA1162 PB-BUFF
IC1028 (1/2) μPC814G2 PB-AMP
IC1028 (2/2) μPC814G2 PB-AMP
IC1027 CX23065A PHASE-COMP
D1026 1SS123-T1 PLL-HS-SPU
D1027 1SS123-T1 PLL-HF-SPU
H SYNC
H FEED
TP1026
TP1027
IC1026 (3/6) SN74AS1004ANSE20 PLL-SIG.BUFF
+5.2V
+5V
IC1001 (4/4) SN74HC00ANS BMP-SIG.INV.
IC1001 (3/4) SN74HC00ANS BMP-SIG.INV.
IC1002 (5/8) TC74VHC244F BMP-I/O-BUFF.
50/60
V1 NO INP
RGB H
RGB
VIDEO V
VIDEO H
VIDEO
-5V
A.GND
+12V
IC1004 CXD8101-108Q BMP-CONT
V OUT
TP1009
IC1009 (1/8) TC74VHC244F CPU-SIG.BUFF
IC1010 MC74HC4053F RGB/V1-SW2
H OUT
TP1010
IC1009 (7/8) TC74VHC244F CPU-SIG.BUFF
+12V
TP1011
IC1008 MB654842UPF SYNC-CONT
X1002 12.288M
-5V
TP1012
IC1009 (8/8) TC74VHC244F CPU-SIG.BUFF
IC1011 TA79005S -5V-REG
A.GND
TP1013
IC1013 PQ12RF11 +12V-REG
Q1008 2SC2712 Y-IN BUFFER
Q1007 2SC2712 SEL-Y-BUFFER
IC1014 SN74HC157ANS RGB-V1-SW1
TP1006
H IN
TP1028
V IN
FB1001
FB1002
CN1001 100P TO BM BOARD CN1
GND (DC)
PLL CLK
D.GND
+6.6V
A.GND
+14.6V
-14.6V
H OUT
H IN
V OUT
V IN
V RET
S ON G
SIRCS RST
SIRCS ENB
SIRCS DATA
CABI PROT
LAMP PROT
FAN PROT
POWER CONT
LAMP CONT
RGB CLAMP
TEMP PROT
BB.Y IN
NC

Schematic diagram

← BA (1/2) board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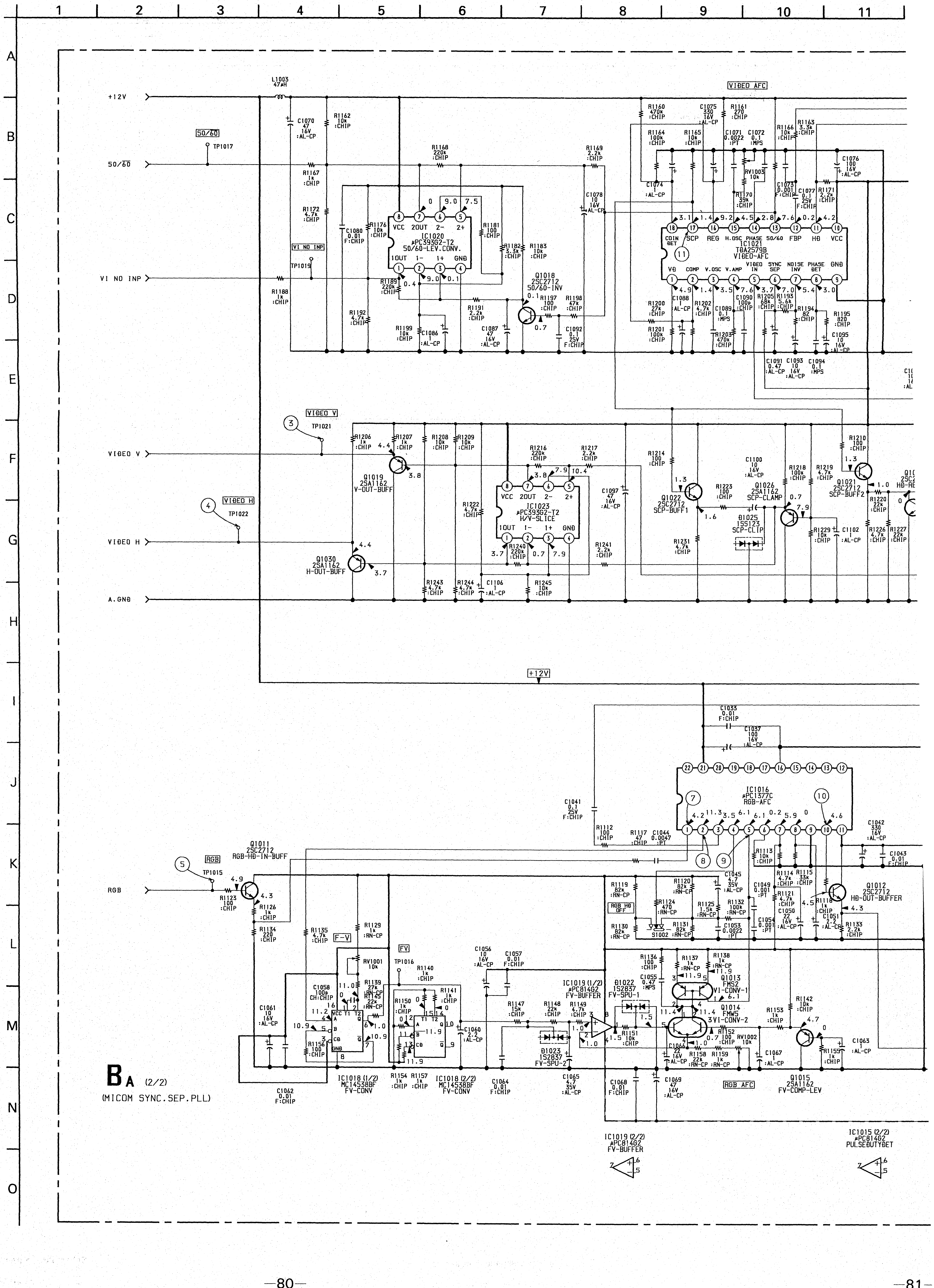
22
IC1024 PQ05RF11 +5V-REG
FL1001 BSS310-55B
IC1025 SN74S124N VCO
IC1026 (1/6) SN74AS1004ANSE20 PLL-SIG.BUFF
IC1026 (2/6) SN74AS1004ANSE20 PLL-SIG.BUFF
FL1002 NFM41R
IC1027 CX23065A PHASE-COMP
D1026 1SS123-T1 PLL-HS-SPU
D1027 1SS123-T1 PLL-HF-SPU
IC1026 (5/6) SN74AS1004ANSE20 PLL-SIG.BUFF
FL1003 NFM41R
IC1026 (3/6) SN74AS1004ANSE20 PLL-SIG.BUFF
IC1026 (4/6) SN74AS1004ANSE20 PLL-SIG.BUFF
IC1026 (6/6) SN74AS1004ANSE20 PLL-SIG.BUFF
Q1031 2SA1162 PB-BUFF
IC1028 (1/2) μPC814G2 PB-AMP
IC1028 (2/2) μPC814G2 PB-AMP
TP1025
FCV
A.+5V
TP1023
-5V
H SYNC
H FEED
TP1026
TP1027
50/60
V1 NO INP
RGB H
RGB
VIDEO V
VIDEO H
VIDEO
-5V
A.GND
+12V
V OUT
TP1009
IC1009 (1/8) TC74VHC244F CPU-SIG.BUFF
IC1010 MC74HC4053F RGB/V1-SW2
H OUT
TP1010
IC1009 (7/8) TC74VHC244F CPU-SIG.BUFF
+12V
TP1011
-5V
TP1012
IC1009 (8/8) TC74VHC244F CPU-SIG.BUFF
IC1011 TA79005S -5V-REG
A.GND
TP1013
L1001 47μH
IC1013 PQ12RF11 +12V-REG
L1002 47μH
Q1004 2SC2712 HD-BUFFER
Q1005 DTC144EK R/V-LEV. CONV-1
Q1006 DTC144EK R/V-LEV. CONV-2
Q1007 2SC2712 SEL-Y-BUFFER
Q1008 2SC2712 Y-IN BUFFER
IC1012 MC14053BF VIDEO-SW
IC1014 SN74HC157ANS RGB-V1-SW1
X1002 12.288M
S11
S10
SL7
SL6
SL5
VDD
VSS
SL4
SL3
SL2
SL1
SL0
NC
SIRCS ENB
NC
SIRCS DATA
NC
NC
NC
CABI PROT
NC
LAMP PROT
NC
FAN PROT
NC
POWER CONT
NC
LAMP CONT
RGB CLAMP
TEMP PROT
A.GND
A.GND
BB.Y IN
GND
NC
NC
NC
NC
CN1001 100P TO BM BOARD CN1
B-SS1583<AEP>-BA.

Schematic diagram

← BA (1/2) board

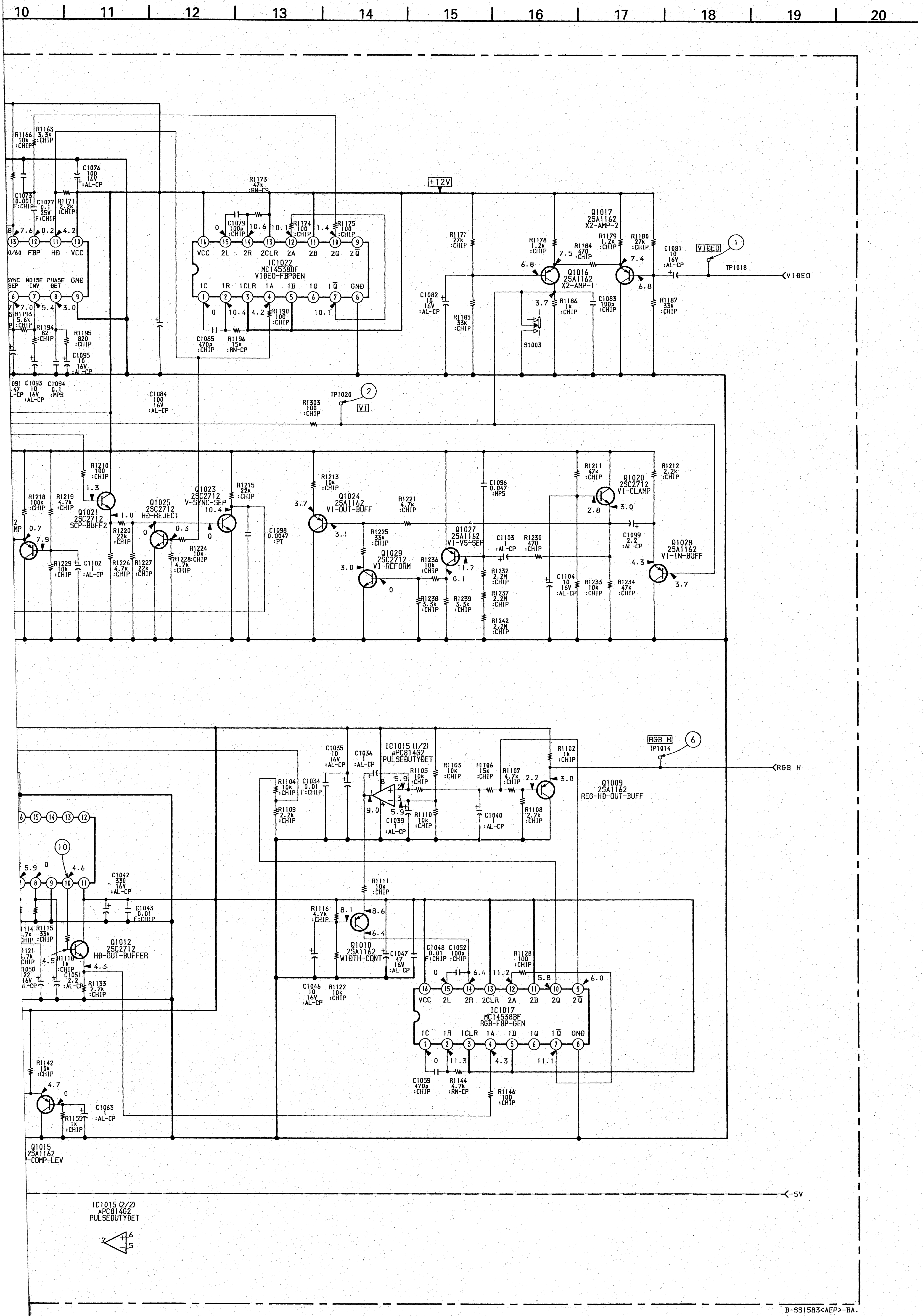
Schematic diagram

BA (2/2) board →



+12V
50/60
TP1017
VI NO INP
VIDEO V
TP1021
VIDEO H
TP1022
A.GND
RGB
TP1015
VIDEO AFC
IC1020 μPC393G2-T2 50/60-LEV.CONV.
Q1018 2SC2712 50/60-INV
IC1021 TDA2579B VIDEO-AFC
Q1019 2SA1162 V-OUT-BUFF
Q1030 2SA1162 H-OUT-BUFF
IC1023 μPC393G2-T2 H/V-SLICE
Q1022 2SC2712 SCP-BUFF1
Q1026 2SA1162 SCP-CLAMP
D1025 1SS123 SCP-CLIP
Q1021 2SC2712 SCP-BUFF2
+12V
IC1016 μPC1377C RGB-AFC
Q1011 2SC2712 RGB-HD-IN-BUFF
Q1012 2SC2712 HD-OUT-BUFFER
F-V
FV
TP1016
IC1019 (1/2) μPC814G2 FV-BUFFER
D1022 1S2837 FV-SPU-1
Q1013 FMS2 V1-CONV-1
Q1014 FMW5 3V1-CONV-2
D1023 1S2837 FV-SPU-2
IC1018 (1/2) MC14538BF FV-CONV
IC1018 (2/2) MC14538BF FV-CONV
Q1015 2SA1162 FV-COMP-LEV
RGB AFC
RGB HD OFF
S1002
IC1019 (2/2) μPC814G2 FV-BUFFER
IC1015 (2/2) μPC814G2 PULSEOUTYDET

B A (2/2)
(MICOM SYNC.SEP.PLL)


10
11
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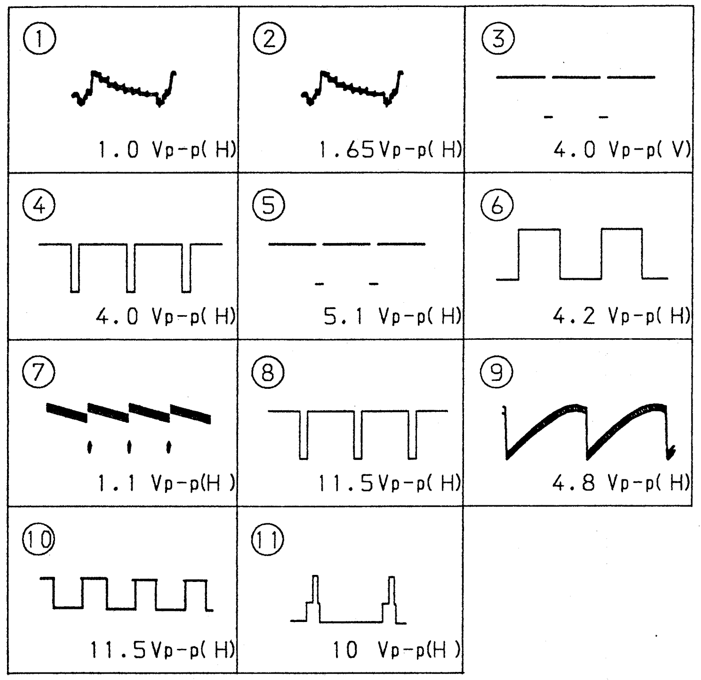
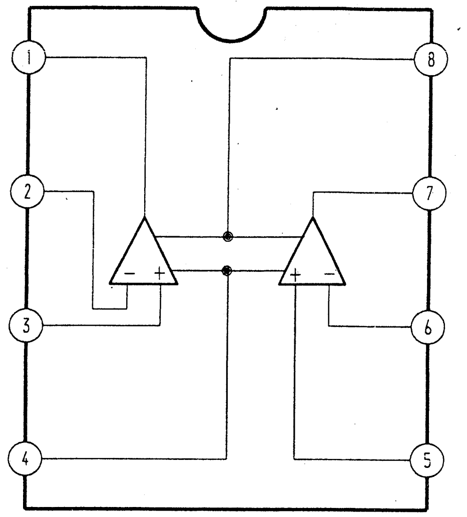
15
16
17
18
19
20
+12V
IC1022
MC14538BF
VIDEO-FBPGEN
VCC 2L 2R 2CLR 2A 2B 2Q 2Q̄
1C 1R 1CLR 1A 1B 1Q 1Q̄ GND
R1173 47k :RN-CP
R1174 100 :CHIP
R1175 100 :CHIP
C1079 100p :CHIP
R1190 100 :CHIP
C1085 470p :CHIP
R1196 15k :RN-CP
C1076 100 16V :AL-CP
R1166 10k :CHIP
R1163 3.3k :CHIP
C1073 0.001 F:CHIP
C1077 0.1 25V F:CHIP
R1171 2.2k :CHIP
FBP HD VCC
SYNC SEP NOISE INV PHASE DET GND
R1193 5.6k :CHIP
R1194 82 :CHIP
R1195 820 :CHIP
C1095 10 16V :AL-CP
C1091 47 :AL-CP
C1093 10 16V :AL-CP
C1094 0.1 :MPS
C1084 100 16V :AL-CP
Q1017 2SA1162 X2-AMP-2
Q1016 2SA1162 X2-AMP-1
R1177 27k :CHIP
R1178 1.2k :CHIP
R1184 470 :CHIP
R1179 1.2k :CHIP
R1180 27k :CHIP
C1081 10 16V :AL-CP
VIDEO ①
TP1018
VIDEO
C1082 10 16V :AL-CP
R1185 33k :CHIP
R1186 1k :CHIP
C1083 100p :CHIP
R1187 33k :CHIP
S1003
TP1020 ②
VI
R1303 100 :CHIP
R1210 100 :CHIP
R1218 100k :CHIP
R1219 4.7k :CHIP
Q1021 2SC2712 SCP-BUFF2
Q1025 2SC2712 HD-REJECT
Q1023 2SC2712 V-SYNC-SEP
R1215 22k :CHIP
R1220 22k :CHIP
R1224 10k :CHIP
R1228 :CHIP 4.7k :CHIP
R1226 4.7k :CHIP
R1227 22k :CHIP
R1229 10k :CHIP
C1102 1 :AL-CP
C1098 0.0047 :PT
R1213 10k :CHIP
Q1024 2SA1162 VI-OUT-BUFF
R1221 4.7k :CHIP
R1225 33k :CHIP
Q1029 2SC2712 VI-REFORM
R1236 10k :CHIP
Q1027 2SA1162 VI-VS-SEP
C1096 0.047 :MPS
C1103 1 :AL-CP
R1230 470 :CHIP
R1232 2.2M :CHIP
R1237 2.2M :CHIP
R1242 2.2M :CHIP
R1238 3.3k :CHIP
R1239 3.3k :CHIP
R1211 47k :CHIP
Q1020 2SC2712 VI-CLAMP
R1212 2.2k :CHIP
C1099 2.2 :AL-CP
C1104 10 16V :AL-CP
R1233 10k :CHIP
R1234 47k :CHIP
Q1028 2SA1162 VI-IN-BUFF
RGB H ⑥
TP1014
RGB H
IC1015 (1/2) μPC8146Z PULSEDUTYDET
C1035 10 16V :AL-CP
C1036 1 :AL-CP
R1104 10k :CHIP
C1034 0.01 F:CHIP
R1109 2.2k :CHIP
R1105 10k :CHIP
R1103 10k :CHIP
R1106 15k :CHIP
R1107 4.7k :CHIP
R1102 1k :CHIP
Q1009 2SA1162 REG-HD-OUT-BUFF
C1039 1 :AL-CP
R1110 10k :CHIP
C1040 1 :AL-CP
R1108 2.7k :CHIP
⑩
C1042 330 16V :AL-CP
C1043 0.01 F:CHIP
R1114 4.7k :CHIP
R1115 33k :CHIP
Q1012 2SC2712 HD-OUT-BUFFER
R1121 4.7k :CHIP
R1118 1k :CHIP
C1050 22 16V :AL-CP
C1051 2.2 :AL-CP
R1133 2.2k :CHIP
R1111 10k :CHIP
R1116 4.7k :CHIP
Q1010 2SA1162 WIDTH-CONT
C1047 47 16V :AL-CP
C1046 10 16V :AL-CP
R1122 10k :CHIP
C1048 0.01 F:CHIP
C1052 100p :CHIP
R1128 100 :CHIP
IC1017 MC14538BF RGB-FBP-GEN
VCC 2L 2R 2CLR 2A 2B 2Q 2Q̄
1C 1R 1CLR 1A 1B 1Q 1Q̄ GND
C1059 470p :CHIP
R1144 4.7k :RN-CP
R1146 100 :CHIP
R1142 10k :CHIP
C1063 1 :AL-CP
R1159 1k :CHIP
Q1015 2SA1162 -COMP-LEV
-5V
IC1015 (2/2) μPC8146Z PULSEDUTYDET
B-SS1583<AEP>-BA.

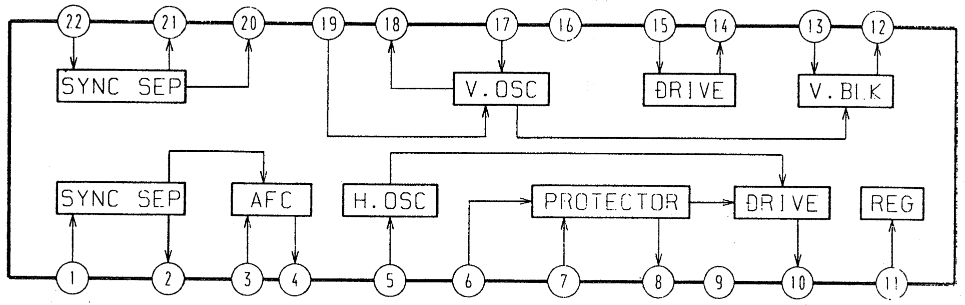
BA (2/2) BOARD



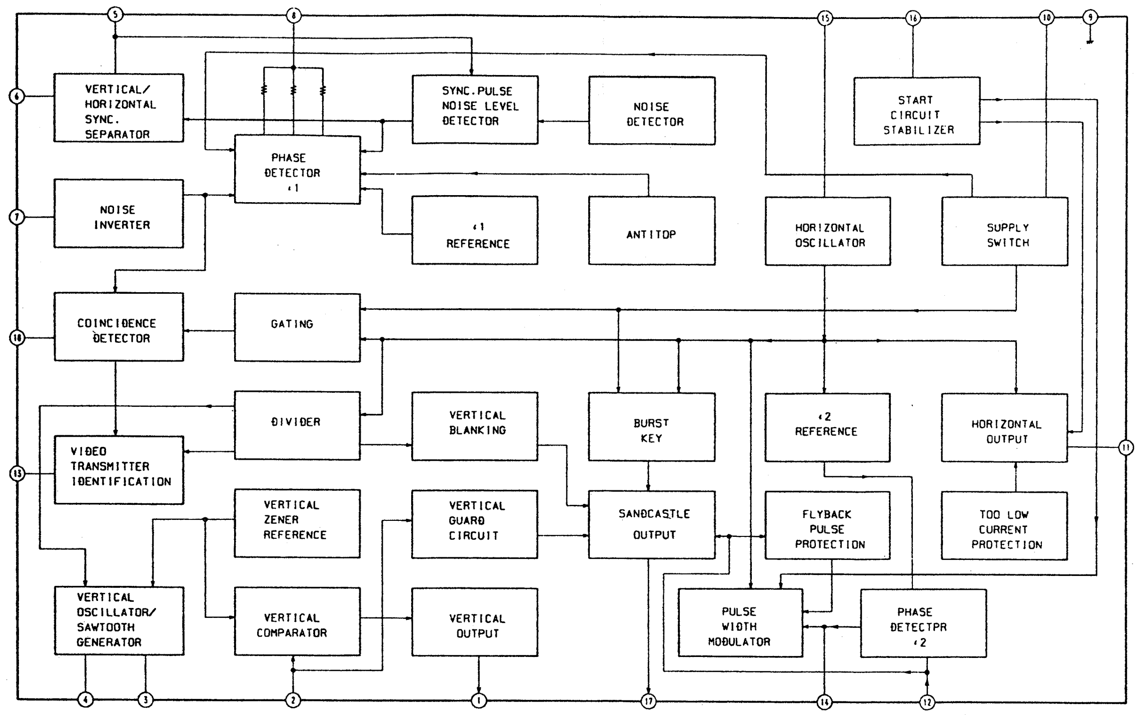
BA (2/2) BOARD IC1020 μPC393G2-T2



BA (2/2) BOARD IC1016 μPC1377C


22
21
20
19
18
17
16
15
14
13
12
SYNC SEP
V.OSC
DRIVE
V.BLK
SYNC SEP
AFC
H.OSC
PROTECTOR
DRIVE
REG
1
2
3
4
5
6
7
8
9
10
11

BA (2/2) BOARD IC1021 TDA2579B


VERTICAL/ HORIZONTAL SYNC. SEPARATOR
PHASE DETECTOR φ1
SYNC. PULSE NOISE LEVEL DETECTOR
NOISE DETECTOR
START CIRCUIT STABILIZER
NOISE INVERTER
φ1 REFERENCE
ANTITOP
HORIZONTAL OSCILLATOR
SUPPLY SWITCH
COINCIDENCE DETECTOR
GATING
DIVIDER
VERTICAL BLANKING
BURST KEY
φ2 REFERENCE
HORIZONTAL OUTPUT
VIDEO TRANSMITTER IDENTIFICATION
VERTICAL ZENER REFERENCE
VERTICAL GUARD CIRCUIT
SANDCASTLE OUTPUT
FLYBACK PULSE PROTECTION
TOO LOW CURRENT PROTECTION
VERTICAL OSCILLATOR/ SAWTOOTH GENERATOR
VERTICAL COMPARATOR
VERTICAL OUTPUT
PULSE WIDTH MODULATOR
PHASE DETECTOR φ2

BA [MICON SYNC. SEP. PLL]

BA BOARD (COMPONENT SIDE)

IC	
IC1001	D-2
IC1002	D-2
IC1003	E-3
IC1004	C-2
IC1005	E-3
IC1006	D-3
IC1007	E-3
IC1008	C-3
IC1009	C-1
IC1010	B-2
IC1011	A-5
IC1012	B-3
IC1013	B-4
IC1014	B-1
IC1015	E-5
IC1016	E-6
IC1017	E-5
IC1018	E-7
IC1019	E-7
IC1020	D-5
IC1021	D-6
IC1022	C-5
IC1023	C-7
IC1024	B-5
IC1025	B-7
IC1026	A-6
IC1027	A-6
IC1028	A-7

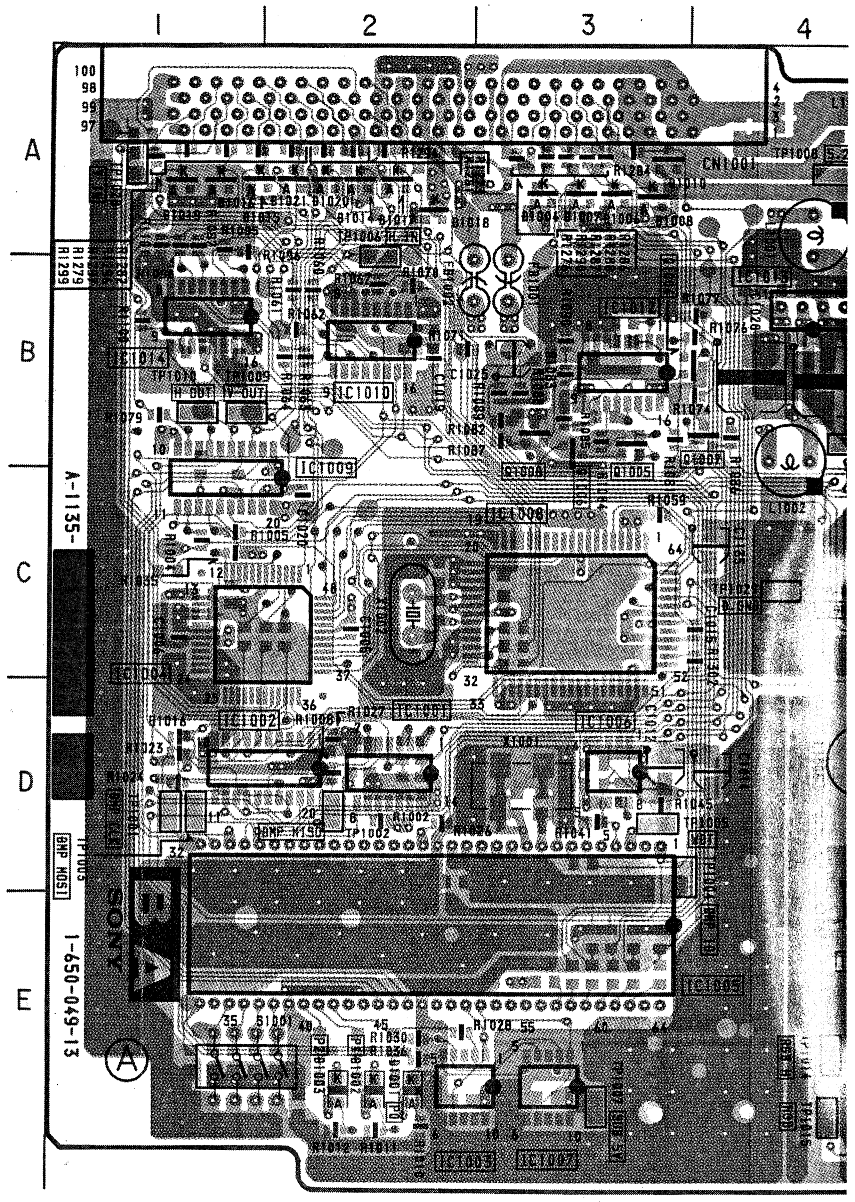
TRANSISTOR	
Q1004	B-4
Q1005	B-3
Q1006	B-3
Q1007	B-4
Q1008	B-3
Q1013	E-6
Q1014	E-7
Q1019	C-7

DIODE	
D1001	E-2
D1002	E-2
D1003	E-2
D1004	A-3
D1006	A-3
D1007	A-3
D1008	A-3
D1010	A-3
D1014	A-2
D1015	A-1
D1016	A-1
D1017	A-2
D1018	A-2
D1019	A-1
D1020	A-2
D1021	A-2
D1023	E-7

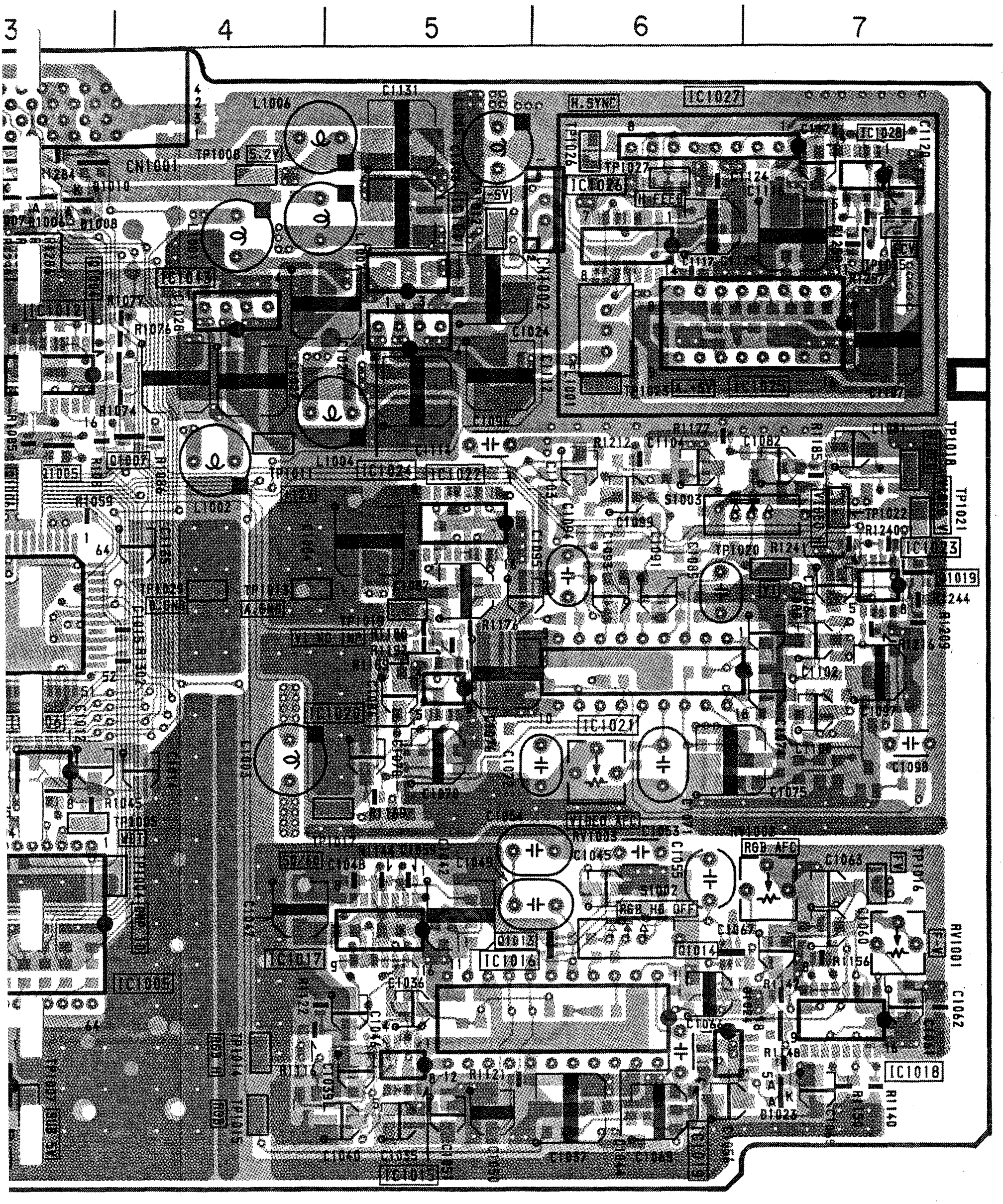
VARIABLE RESISTOR	
RV1001	E-7
RV1002	E-7
RV1003	D-6

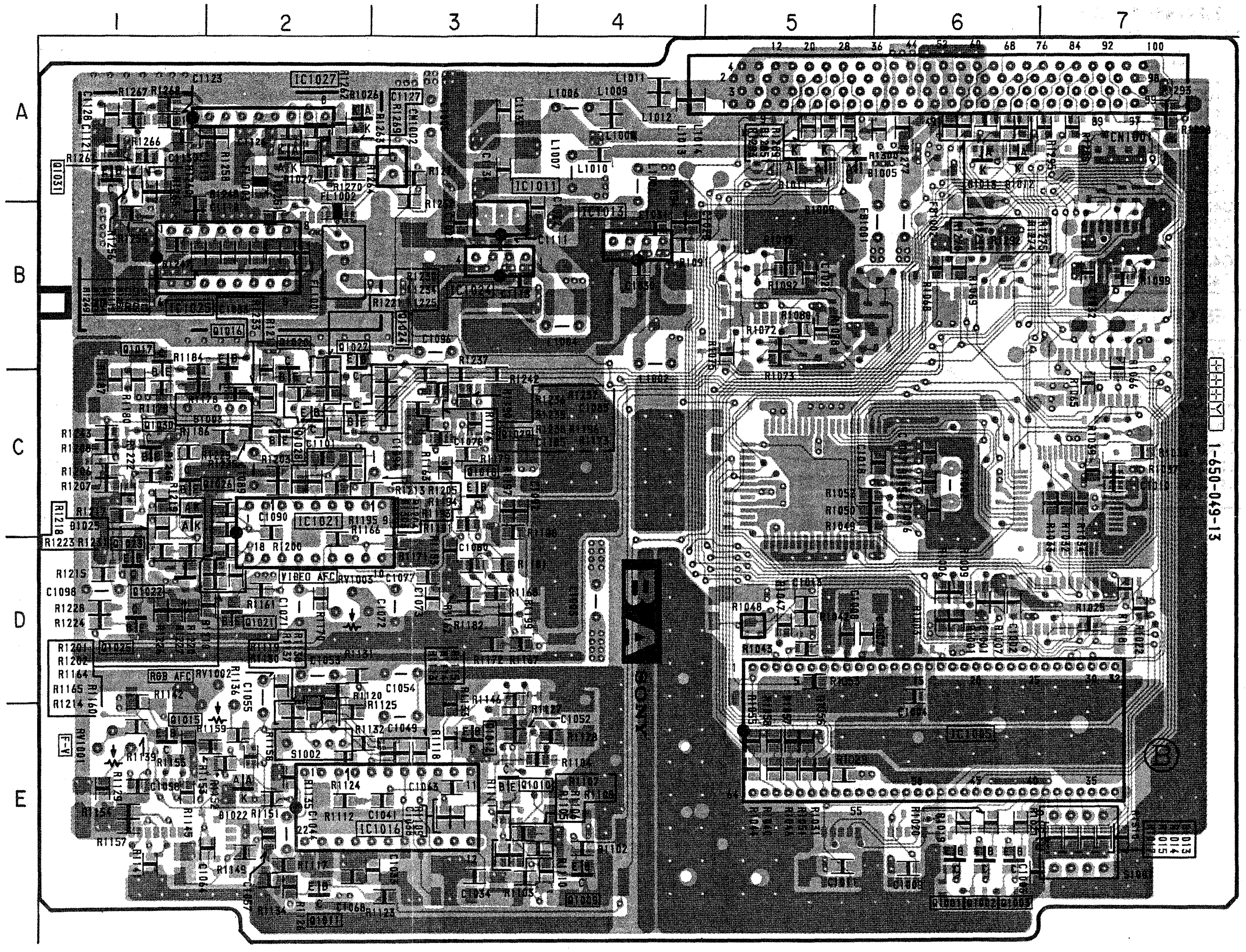
TEST POINT	
TP1001	D-1
TP1002	D-2
TP1003	D-1
TP1004	E-4
TP1005	D-3
TP1006	A-2
TP1007	E-3
TP1008	A-4
TP1009	B-1
TP1010	B-1
TP1011	B-4
TP1012	A-5
TP1013	C-4
TP1014	E-4
TP1015	E-4
TP1016	E-7
TP1017	D-5
TP1018	C-7
TP1019	C-5
TP1020	C-7
TP1021	C-7
TP1022	C-7
TP1023	B-6
TP1025	A-7
TP1026	A-6
TP1027	A-6
TP1028	A-1
TP1029	C-4

– BA BOARD – **<Component Side>**


1
2
3
4
A
B
C
D
E
CN1001
IC1009
IC1010
IC1014
IC1004
IC1002
IC1001
IC1008
IC1006
IC1012
IC1003
IC1007
IC1005
A-1135-
1-650-049-13
SONY
BA
Ⓐ

<Conductor Side>


3
4
5
6
7
CN1001
H.SYNC
IC1027
IC1028
IC1024
IC1022
IC1023
IC1019
IC1020
IC1021
IC1017
IC1016
IC1018
IC1015
IC1005
RGB AFC
VIDEO AFC
RGB H6 OFF
S1002
S1003
RV1001


1
2
3
4
5
6
7
A
B
C
D
E
IC1027
IC1011
IC1021
IC1016
IC1025
IC1024
CN1001
VIDEO AFC
RGB AFC
RV1002
RV1003
S1002
BA
SONY
1-650-049-13
B

**BA BOARD
(CONDUCTOR SIDE)**

IC	
IC1005	E-6
IC1011	B-3
IC1013	B-4
IC1016	E-3
IC1021	D-2
IC1024	B-3
IC1025	B-2
IC1027	A-2

TRANSISTOR	
Q1001	E-6
Q1002	E-6
Q1003	E-6
Q1009	E-4
Q1010	E-3
Q1011	E-2
Q1012	E-3
Q1015	E-1
Q1016	C-2
Q1017	C-1
Q1018	C-3
Q1020	C-2
Q1021	D-2
Q1022	D-1
Q1023	D-1
Q1024	C-2
Q1025	D-1
Q1026	C-1
Q1027	C-2
Q1028	C-2
Q1029	C-3
Q1030	C-1
Q1031	A-1

DIODE	
D1005	A-5
D1009	A-5
D1011	A-5
D1012	A-6
D1013	A-6
D1022	E-2
D1025	C-1
D1026	A-2
D1027	A-2

VARIABLE RESISTOR	
RV1001	E-1
RV1002	E-2
RV1003	D-2

Note:
- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear.

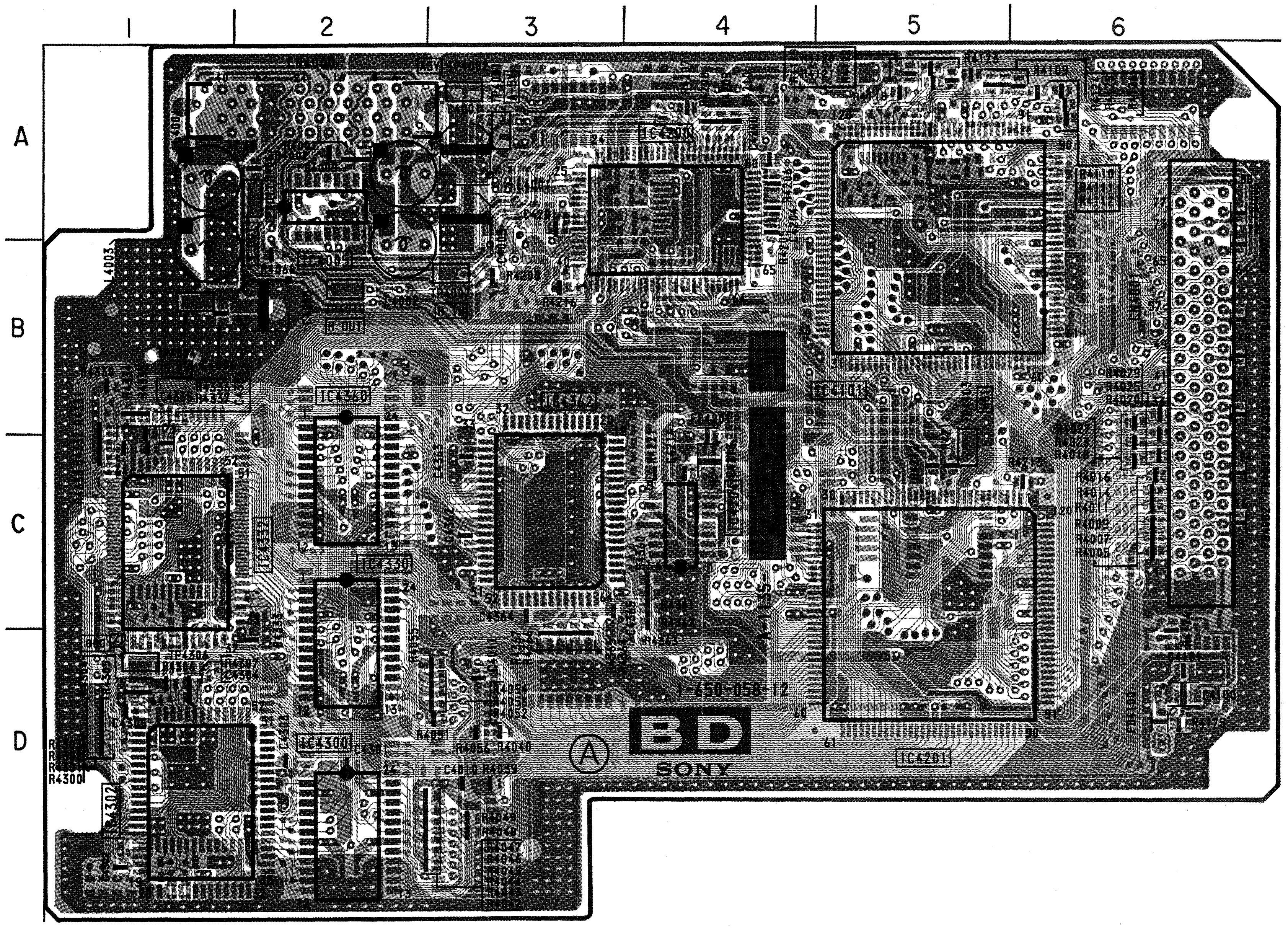
BD [SCAN CONV.]

**BD BOARD
(COMPONENT SIDE)**

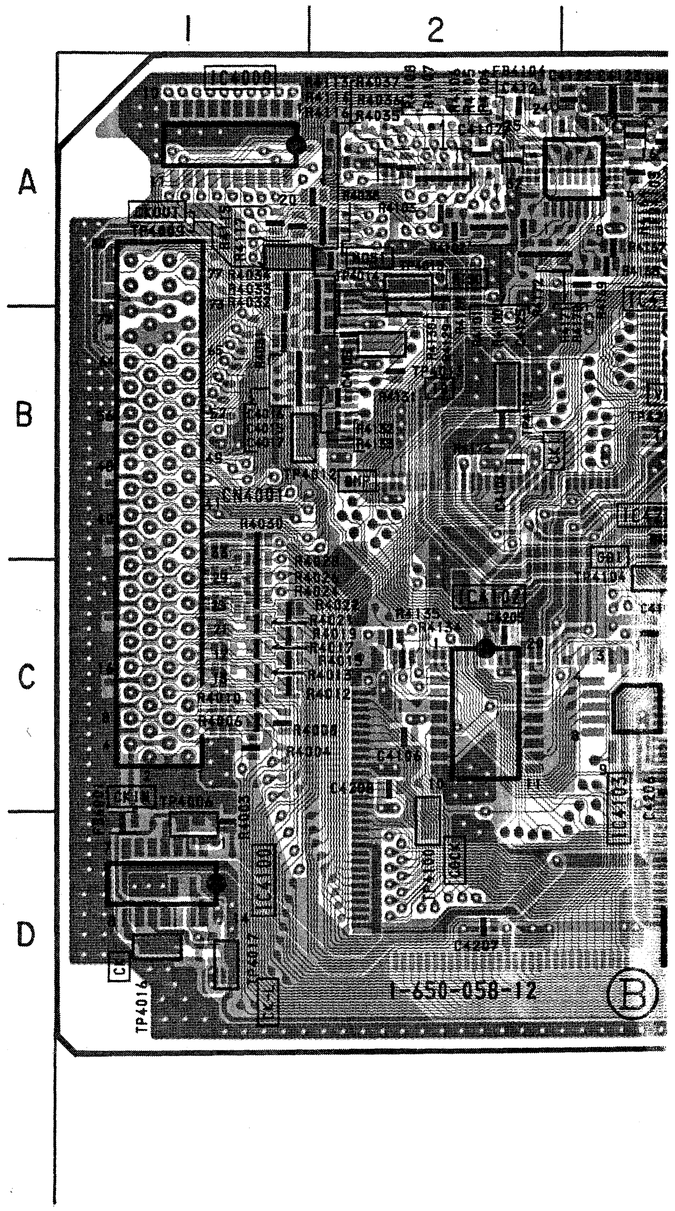
IC	
IC4005	A-2
IC4101	B-5
IC4200	A-4
IC4201	C-5
IC4204	C-4
IC4300	D-2
IC4302	D-1
IC4330	D-2
IC4332	C-1
IC4360	C-2
IC4362	C-3

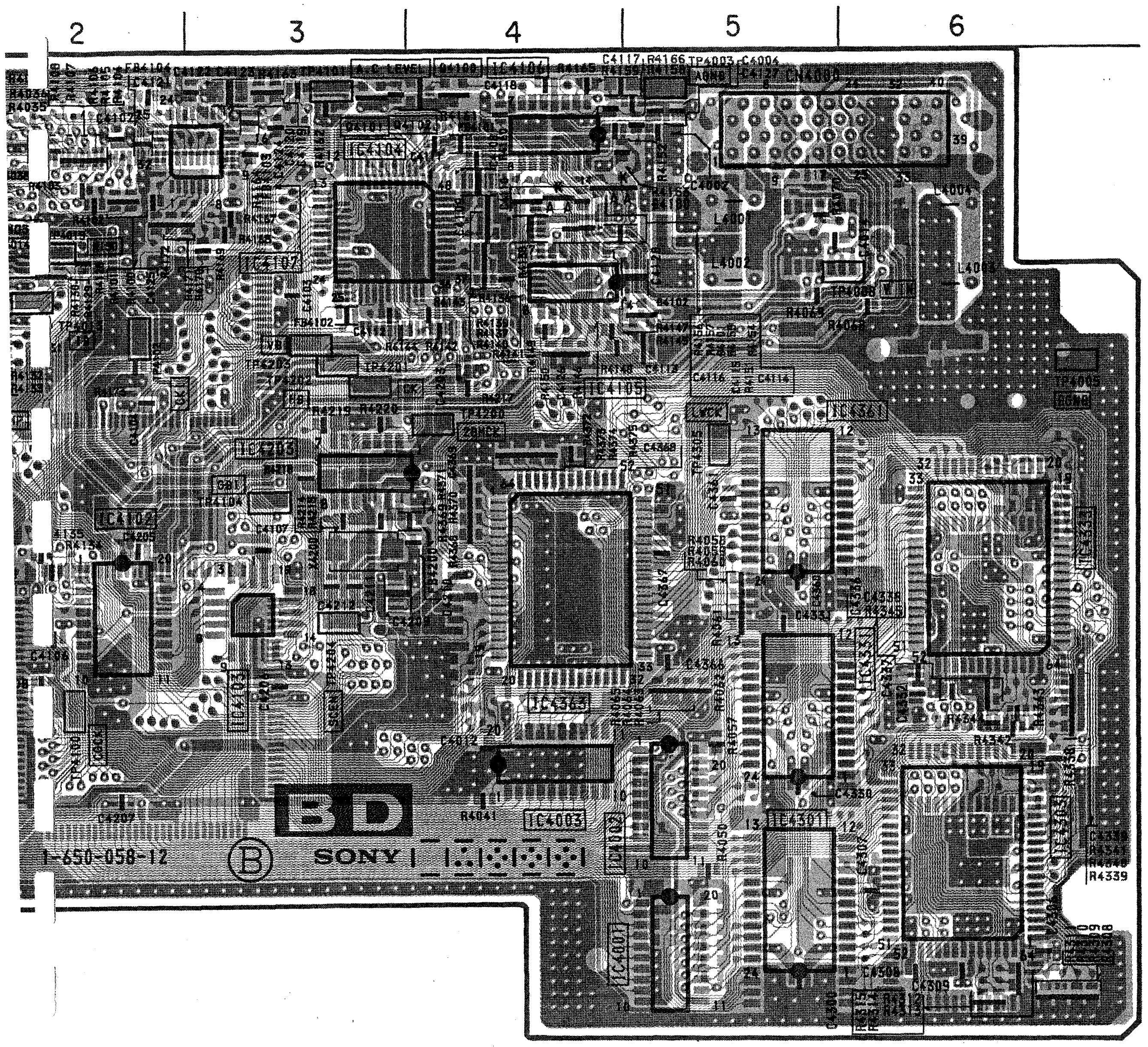
TEST POINT	
TP4001	A-3
TP4002	A-3
TP4004	B-1
TP4007	B-3
TP4010	B-2
TP4011	A-2
TP4103	C-5
TP4306	D-1

– BD BOARD – <Component Side>


1
2
3
4
5
6
A
B
C
D
1-650-058-12
BD
SONY
Ⓐ

<Conductor Side>


1
2
A
B
C
D
1-650-058-12
Ⓑ


2
3
4
5
6
BD
1-650-058-12
B
SONY
IC4003
IC4001
IC4002
IC4301
IC4303
IC4331
IC4333
IC4361
IC4363
IC4102
IC4103
IC4104
IC4105
IC4106
IC4107
IC4203

Note:

- ▓ : Pattern from the side which enables seeing.
- ░ : Pattern of the rear.

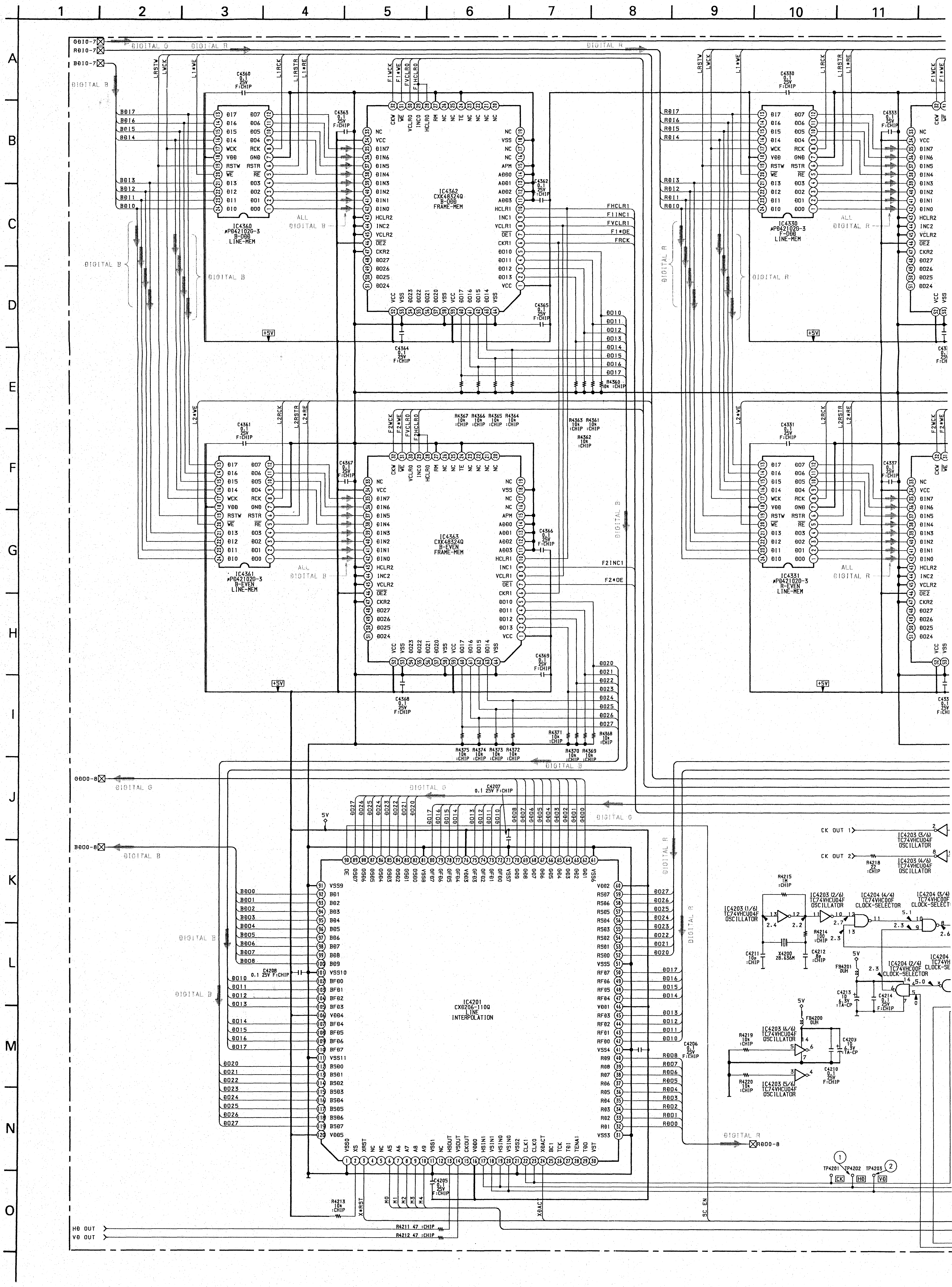
BD BOARD
(CONDUCTOR SIDE)

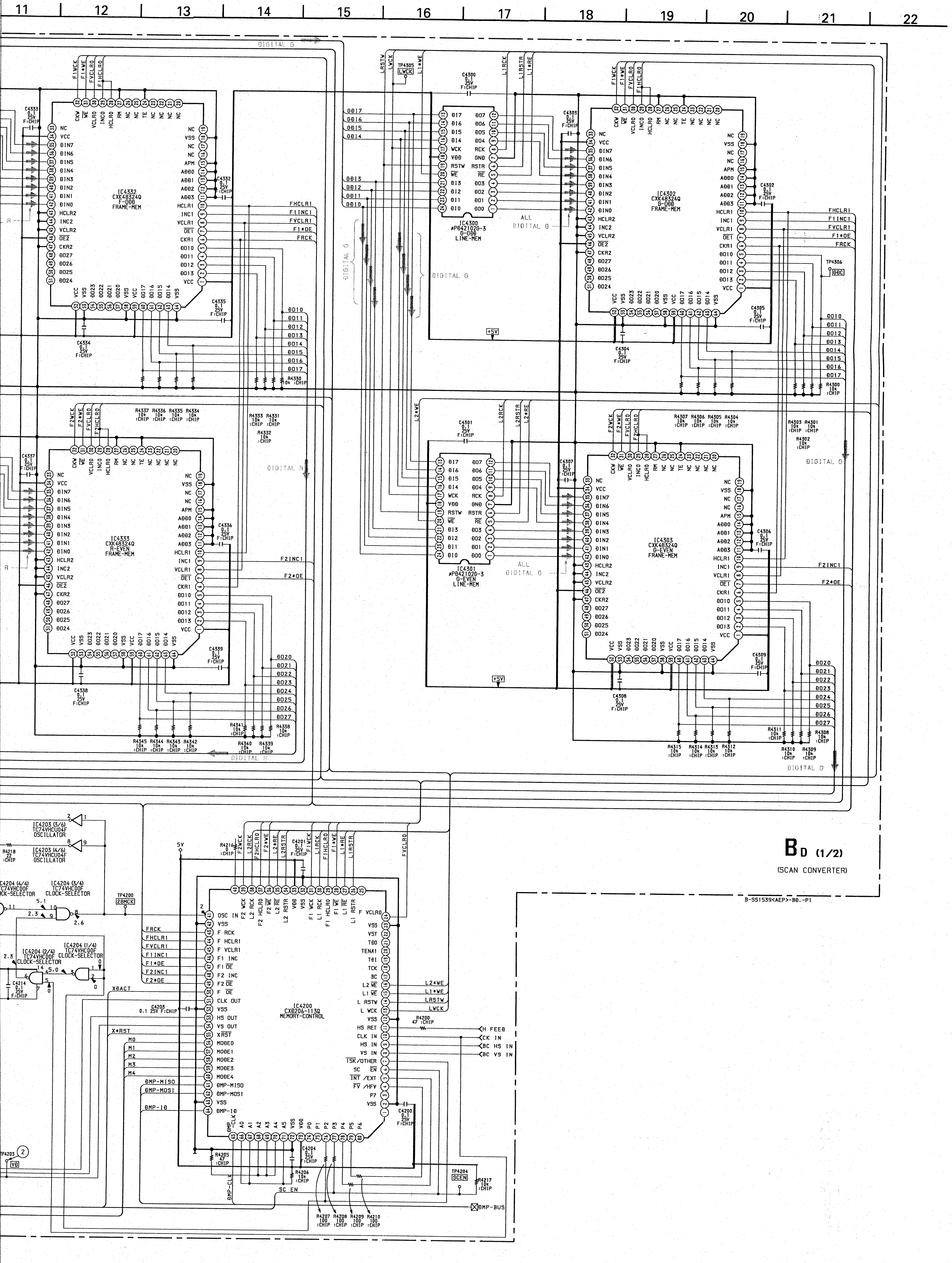
IC	
IC4001	D-5
IC4002	D-5
IC4003	D-4
IC4100	D-1
IC4102	C-2
IC4103	C-3
IC4104	A-3
IC4105	B-5
IC4106	A-4
IC4107	A-3
IC4203	B-3
IC4301	D-5
IC4303	D-6
IC4331	D-5
IC4333	C-6
IC4361	C-5
IC4363	C-4

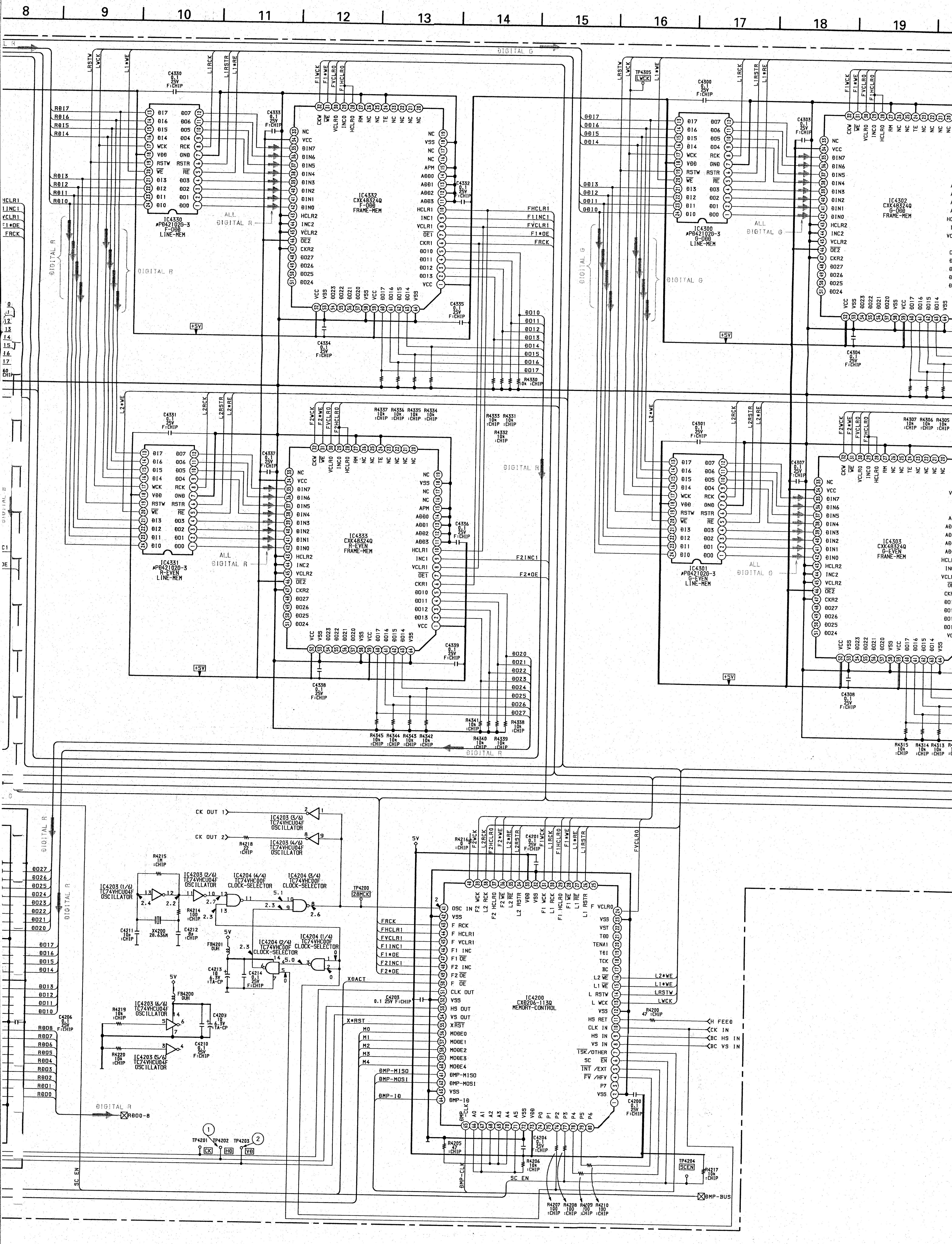
TRANSISTOR	
Q4100	A-4
Q4101	A-3
Q4102	A-4

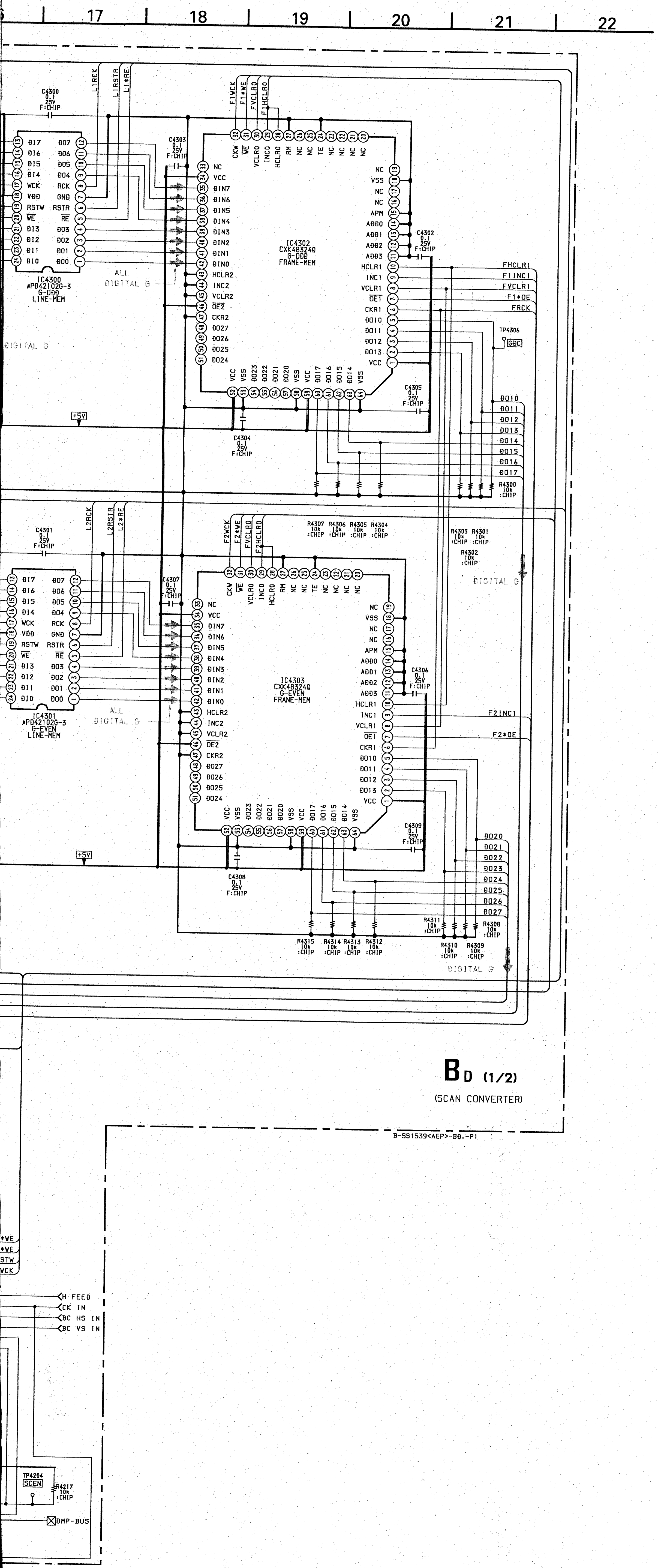
DIODE	
D4100	A-5
D4101	A-5
D4102	B-5

TEST POINT	
TP4003	A-5
TP4005	B-6
TP4006	D-1
TP4008	B-6
TP4009	A-1
TP4012	B-2
TP4013	B-2
TP4014	A-2
TP4015	A-2
TP4016	D-1
TP4017	D-1
TP4100	D-2
TP4101	A-3
TP4102	B-2
TP4104	C-3
TP4200	B-4
TP4201	B-3
TP4202	B-3
TP4203	B-3
TP4204	C-3
TP4305	B-5

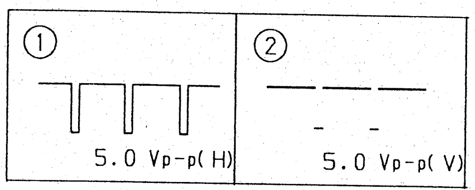

G0I0-7
R0I0-7
B0I0-7
DIGITAL G
DIGITAL R
DIGITAL B
IC4360
μPD42102G-3
B-ODD
LINE-MEM
IC4362
CXK48324Q
B-ODD
FRAME-MEM
IC4361
μPD42102G-3
B-EVEN
LINE-MEM
IC4363
CXK48324Q
B-EVEN
FRAME-MEM
IC4330
μPD42102G-3
R-ODD
LINE-MEM
IC4331
μPD42102G-3
R-EVEN
LINE-MEM
IC4201
CXD206-110Q
LINE
INTERPOLATION
ALL DIGITAL B
ALL DIGITAL R
FHCLR1
F1INC1
FVCLR1
F1*OE
FRCK
F2INC1
F2*OE
G0O0-8
B0O0-8
R0O0-8
HD OUT
VD OUT
CK OUT 1
CK OUT 2
IC4203 (1/6)
TC74VHCU04F
OSCILLATOR
IC4203 (2/6)
TC74VHCU04F
OSCILLATOR
IC4203 (3/6)
TC74VHCU04F
OSCILLATOR
IC4203 (4/6)
TC74VHCU04F
OSCILLATOR
IC4203 (5/6)
TC74VHCU04F
OSCILLATOR
IC4203 (6/6)
TC74VHCU04F
OSCILLATOR
IC4204 (4/4)
TC74VHC00F
CLOCK-SELECTOR
IC4204 (2/4)
TC74VHC00F
CLOCK-SELECTOR
X4200
28.636M
TP4201
TP4202
TP4203
CK
HD
VD
+5V
5V
SC EN
XDACT
X*RST
R4211 47 :CHIP
R4212 47 :CHIP
R4213 10k :CHIP
C4207 0.1 25V F:CHIP
C4208 0.1 25V F:CHIP
C4204 0.1 25V F:CHIP
C4205 0.1 25V F:CHIP
1 2 3 4 5 6 7 8 9 10 11
A B C D E F G H I J K L M N O


11
12
13
14
15
16
17
18
19
20
21
22
DIGITAL G
DIGITAL R
ALL DIGITAL G
IC4332 CXK48324Q F-ODD FRAME-MEM
IC4333 CXK48324Q R-EVEN FRAME-MEM
IC4300 #P0421020-3 G-ODD LINE-MEM
IC4301 #P0421020-3 G-EVEN LINE-MEM
IC4302 CXK48324Q G-ODD FRAME-MEM
IC4303 CXK48324Q G-EVEN FRAME-MEM
IC4200 CXD2206-113Q MEMORY-CONTROL
IC4203 (3/6) TC74VHCU04F OSCILLATOR
IC4203 (4/6) TC74VHCU04F OSCILLATOR
IC4204 (4/4) TC74VHC00F CLOCK-SELECTOR
IC4204 (3/4) TC74VHC00F CLOCK-SELECTOR
IC4204 (2/4) TC74VHC00F CLOCK-SELECTOR
IC4204 (1/4) TC74VHC00F CLOCK-SELECTOR
TP4200 28MCK
TP4203 VD
TP4204 SCEN
TP4305 LWCK
TP4306 GGC
+5V
H FEED
CK IN
BC HS IN
BC VS IN
ØMP-BUS
SC EN
XØACT
X*RST
FHCLR1
F1INC1
FVCLR1
F1*OE
FRCK
F2INC1
F2*OE
L2*WE
L1*WE
LRSTW
LWCK
BD (1/2)
(SCAN CONVERTER)
B-SS1539<AEP>-B0.-P1

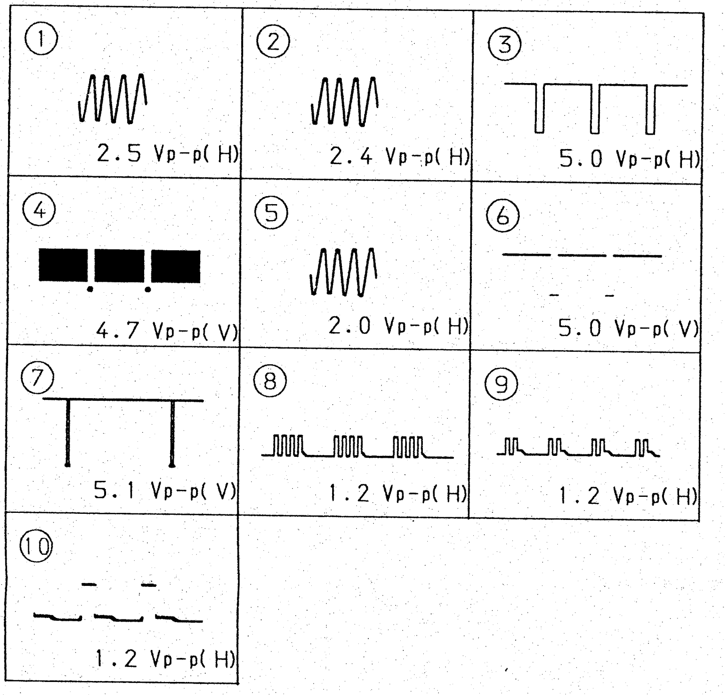

8
9
10
11
12
13
14
15
16
17
18
19
DIGITAL G
DIGITAL R
IC4330
μPD42102G-3
F-ODD
LINE-MEM
IC4332
CXK48324Q
F-ODD
FRAME-MEM
IC4331
μPD42102G-3
R-EVEN
LINE-MEM
IC4333
CXK48324Q
R-EVEN
FRAME-MEM
IC4300
μPD42102G-3
G-ODD
LINE-MEM
IC4302
CXK48324Q
G-ODD
FRAME-MEM
IC4301
μPD42102G-3
G-EVEN
LINE-MEM
IC4303
CXK48324Q
G-EVEN
FRAME-MEM
ALL DIGITAL R
ALL DIGITAL G
+5V
FHCLR1
F1INC1
FVCLR1
F1*OE
FRCK
F2INC1
F2*OE
CK OUT 1
CK OUT 2
IC4203 (3/6)
TC74VHCU04F
OSCILLATOR
IC4203 (4/6)
TC74VHCU04F
OSCILLATOR
IC4203 (1/6)
TC74VHCU04F
OSCILLATOR
IC4203 (2/6)
TC74VHCU04F
OSCILLATOR
IC4204 (4/4)
TC74VHC00F
CLOCK-SELECTOR
IC4204 (3/4)
TC74VHC00F
CLOCK-SELECTOR
IC4204 (2/4)
TC74VHC00F
CLOCK-SELECTOR
IC4204 (1/4)
TC74VHC00F
CLOCK-SELECTOR
IC4203 (6/6)
TC74VHCU04F
OSCILLATOR
IC4203 (5/6)
TC74VHCU04F
OSCILLATOR
X4200
28.636M
TP4200
28MCK
X8ACT
X*RST
M0
M1
M2
M4
BMP-MISO
BMP-MOSI
BMP-I0
BMP-CLK
SC EN
IC4200
CXD8206-113Q
MEMORY-CONTROL
L2*WE
L1*WE
LRSTW
LWCK
H FEED
CK IN
BC HS IN
BC VS IN
BMP-BUS
R800-8
TP4201
CK
TP4202
HD
TP4203
VD
TP4204
SCEN
TP4305
LWCK


17
18
19
20
21
22
L1RCK
L1RSTR
L1*RE
C4300 0.1 25V F:CHIP
F1WCK
F1*WE
FVCLR0
FHCLR0
C4303 0.1 25V F:CHIP
IC4300 *PD421020G-3 G-ODD LINE-MEM
ALL DIGITAL G
IC4302 CXK48324Q G-ODD FRAME-MEM
C4302 0.1 25V F:CHIP
FHCLR1
F1INC1
FVCLR1
F1*OE
FRCK
TP4306 GBC
C4305 0.1 25V F:CHIP
C4304 0.1 25V F:CHIP
+5V
DIGITAL G
D010
D011
D012
D013
D014
D015
D016
D017
R4300 10k :CHIP
L2RCK
L2RSTR
L2*RE
C4301 0.1 25V F:CHIP
F2WCK
F2*WE
FVCLR0
F2HCLR0
R4307 10k :CHIP
R4306 10k :CHIP
R4305 10k :CHIP
R4304 10k :CHIP
R4303 10k :CHIP
R4301 10k :CHIP
R4302 10k :CHIP
DIGITAL G
C4307 0.1 25V F:CHIP
IC4301 *PD421020G-3 G-EVEN LINE-MEM
ALL DIGITAL G
IC4303 CXK48324Q G-EVEN FRAME-MEM
C4306 0.1 25V F:CHIP
F2INC1
F2*OE
C4309 0.1 25V F:CHIP
C4308 0.1 25V F:CHIP
+5V
D020
D021
D022
D023
D024
D025
D026
D027
R4311 10k :CHIP
R4308 10k :CHIP
R4315 10k :CHIP
R4314 10k :CHIP
R4313 10k :CHIP
R4312 10k :CHIP
R4310 10k :CHIP
R4309 10k :CHIP
DIGITAL G
BD (1/2)
(SCAN CONVERTER)
B-SS1539<AEP>-BD.-P1
*WE
*WE
STW
WCK
H FEED
CK IN
BC HS IN
BC VS IN
TP4204 SCEN
R4217 10k :CHIP
DMP-BUS

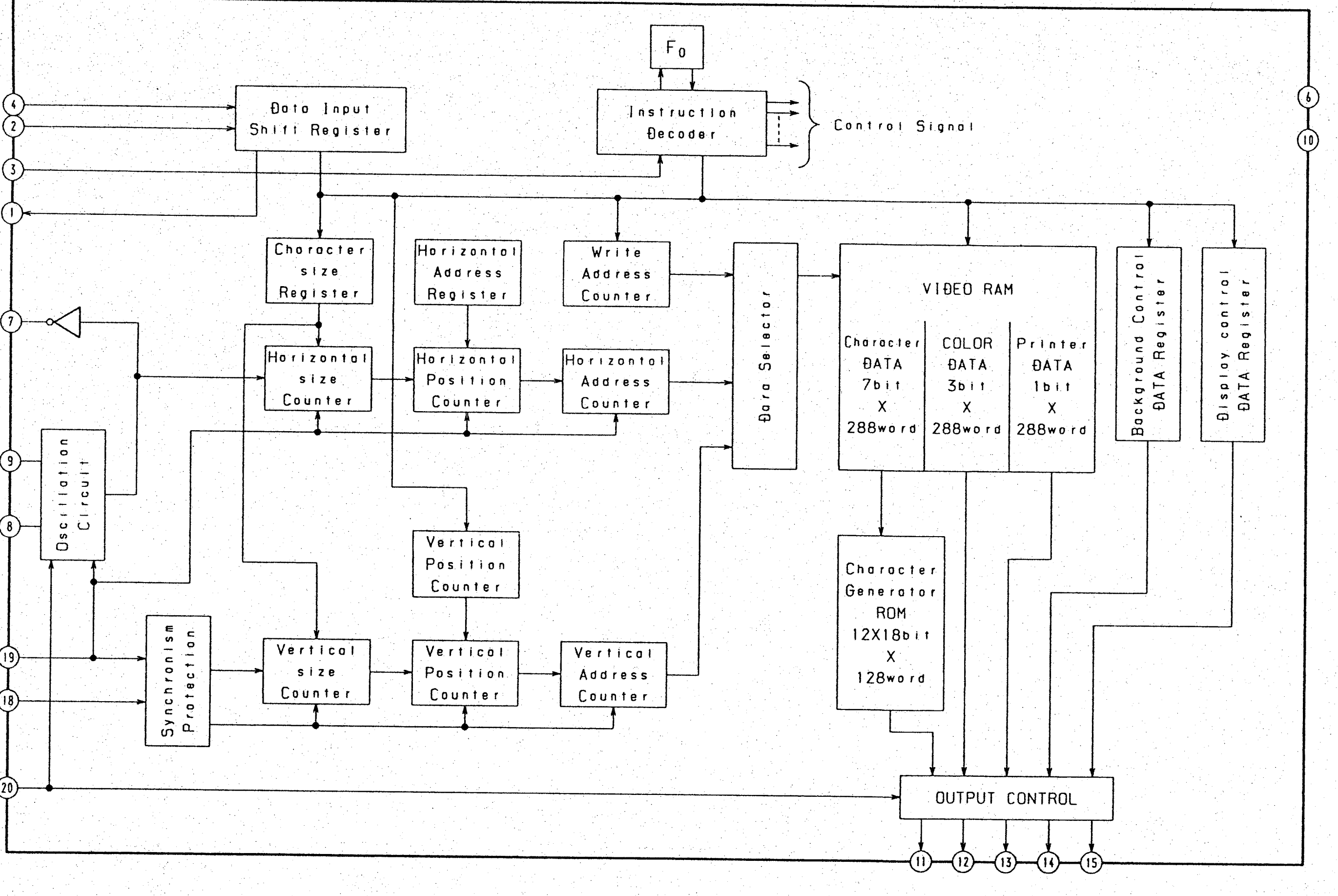
BD (1/2) BOARD


①
5.0 Vp-p(H)
②
5.0 Vp-p(V)

BD (2/2) BOARD



BD (2/2) BOARD IC4102 μPD6451AGT-630


Fo
Data Input Shift Register
Instruction Decoder
Control Signal
Character size Register
Horizontal Address Register
Write Address Counter
Horizontal size Counter
Horizontal Position Counter
Horizontal Address Counter
Data Selector
VIDEO RAM
Character DATA 7bit X 288word
COLOR DATA 3bit X 288word
Printer DATA 1bit X 288word
Background Control DATA Register
Display control DATA Register
Oscillation Circuit
Vertical Position Counter
Character Generator ROM 12X18bit X 128word
Synchronism Protection
Vertical size Counter
Vertical Position Counter
Vertical Address Counter
OUTPUT CONTROL
④
②
③
①
⑦
⑨
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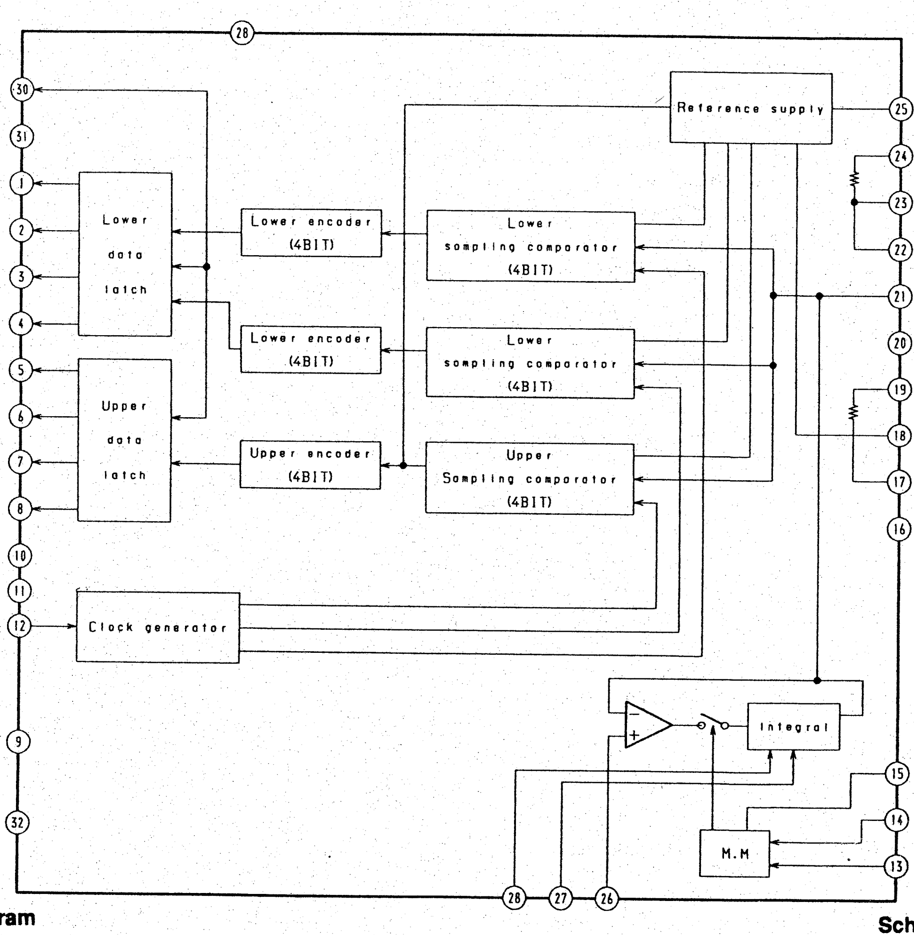
BD (2/2) BOARD IC4107 CXD1176Q


Reference supply
Lower data latch
Lower encoder (4BIT)
Lower sampling comparator (4BIT)
Lower encoder (4BIT)
Lower sampling comparator (4BIT)
Upper data latch
Upper encoder (4BIT)
Upper Sampling comparator (4BIT)
Clock generator
Integral
M.M
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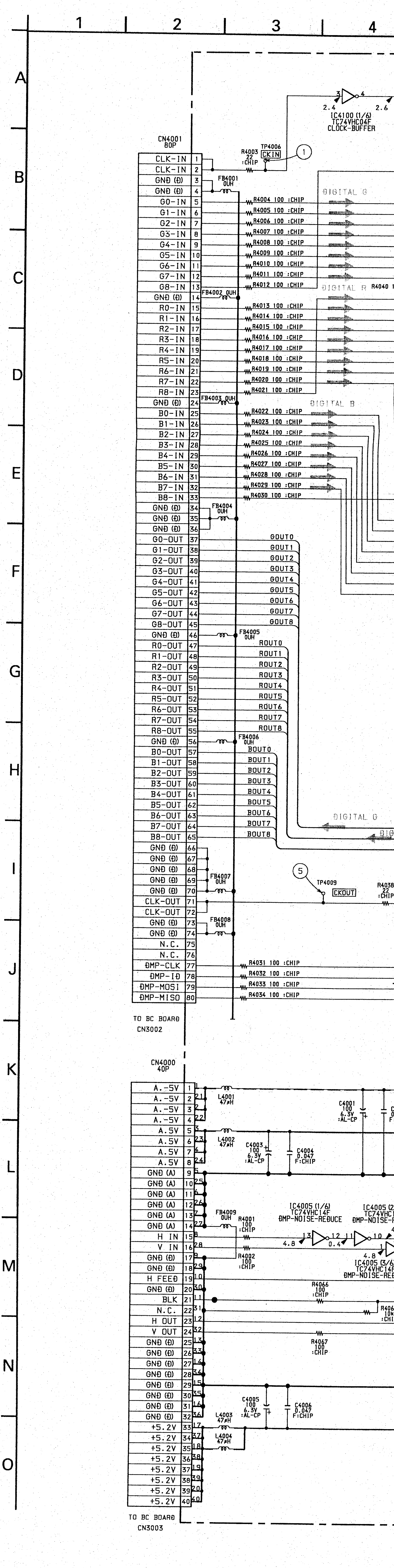
Schematic diagram

← BD (1/2) board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A
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C
D
E
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H
I
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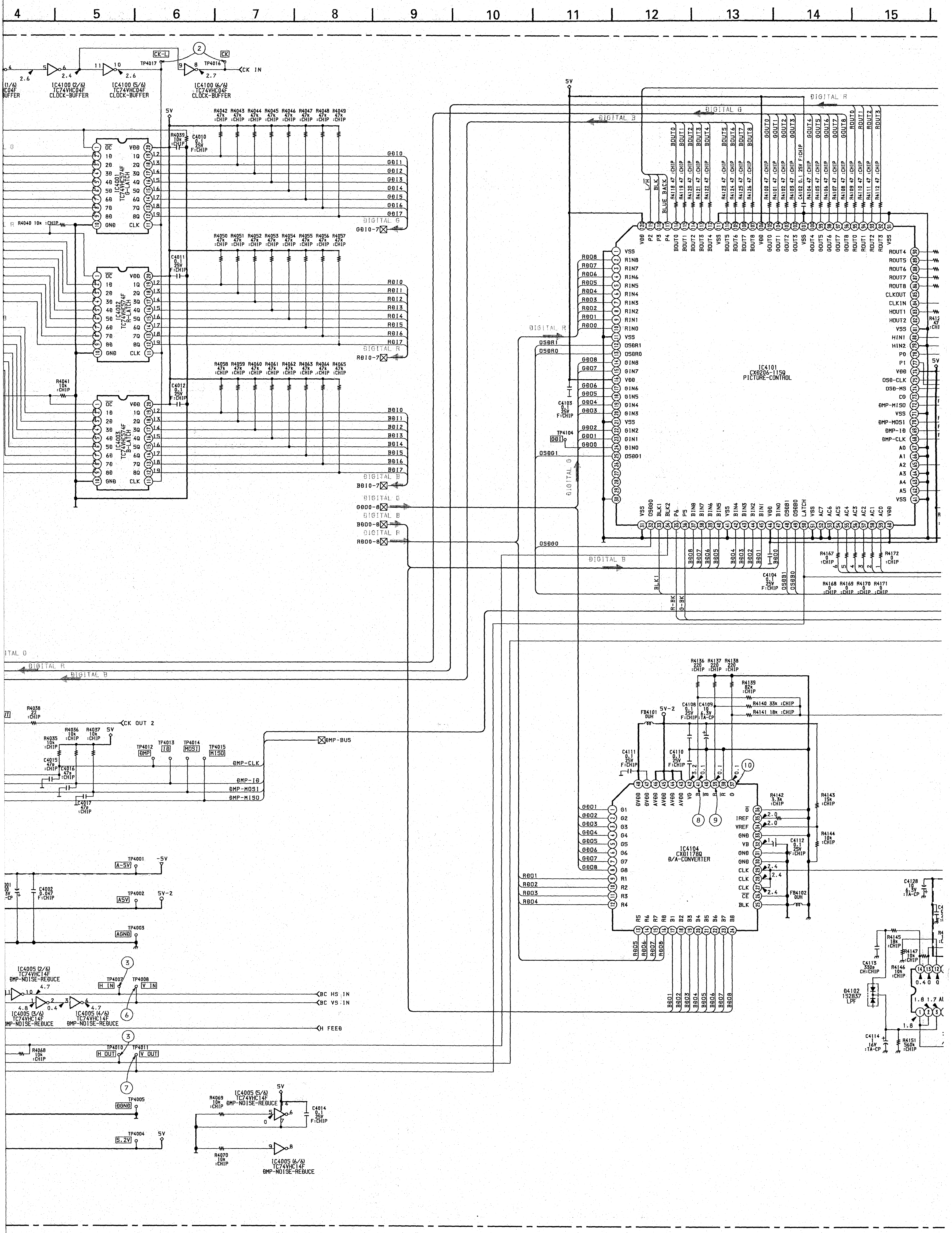
K
L
M
N
O
CN4001 80P
CLK-IN
GND (D)
G0-IN
G1-IN
G2-IN
G3-IN
G4-IN
G5-IN
G6-IN
G7-IN
G8-IN
R0-IN
R1-IN
R2-IN
R3-IN
R4-IN
R5-IN
R6-IN
R7-IN
R8-IN
B0-IN
B1-IN
B2-IN
B3-IN
B4-IN
B5-IN
B6-IN
B7-IN
B8-IN
G0-OUT
G1-OUT
G2-OUT
G3-OUT
G4-OUT
G5-OUT
G6-OUT
G7-OUT
G8-OUT
R0-OUT
R1-OUT
R2-OUT
R3-OUT
R4-OUT
R5-OUT
R6-OUT
R7-OUT
R8-OUT
B0-OUT
B1-OUT
B2-OUT
B3-OUT
B4-OUT
B5-OUT
B6-OUT
B7-OUT
B8-OUT
CLK-OUT
N.C.
DMP-CLK
DMP-ID
DMP-MOSI
DMP-MISO
TO BC BOARD CN3002
IC4100 (1/6) TC74VHC04F CLOCK-BUFFER
TP4006 CKIN
TP4009 CKOUT
DIGITAL G
DIGITAL R
DIGITAL B
CN4000 40P
A.-5V
A.5V
GND (A)
H IN
V IN
H FEED
GND (D)
BLK
N.C.
H OUT
V OUT
+5.2V
TO BC BOARD CN3003
IC4005 (1/6) TC74VHC14F DMP-NOISE-REDUCE

Schematic diagram

BD (2/2) board →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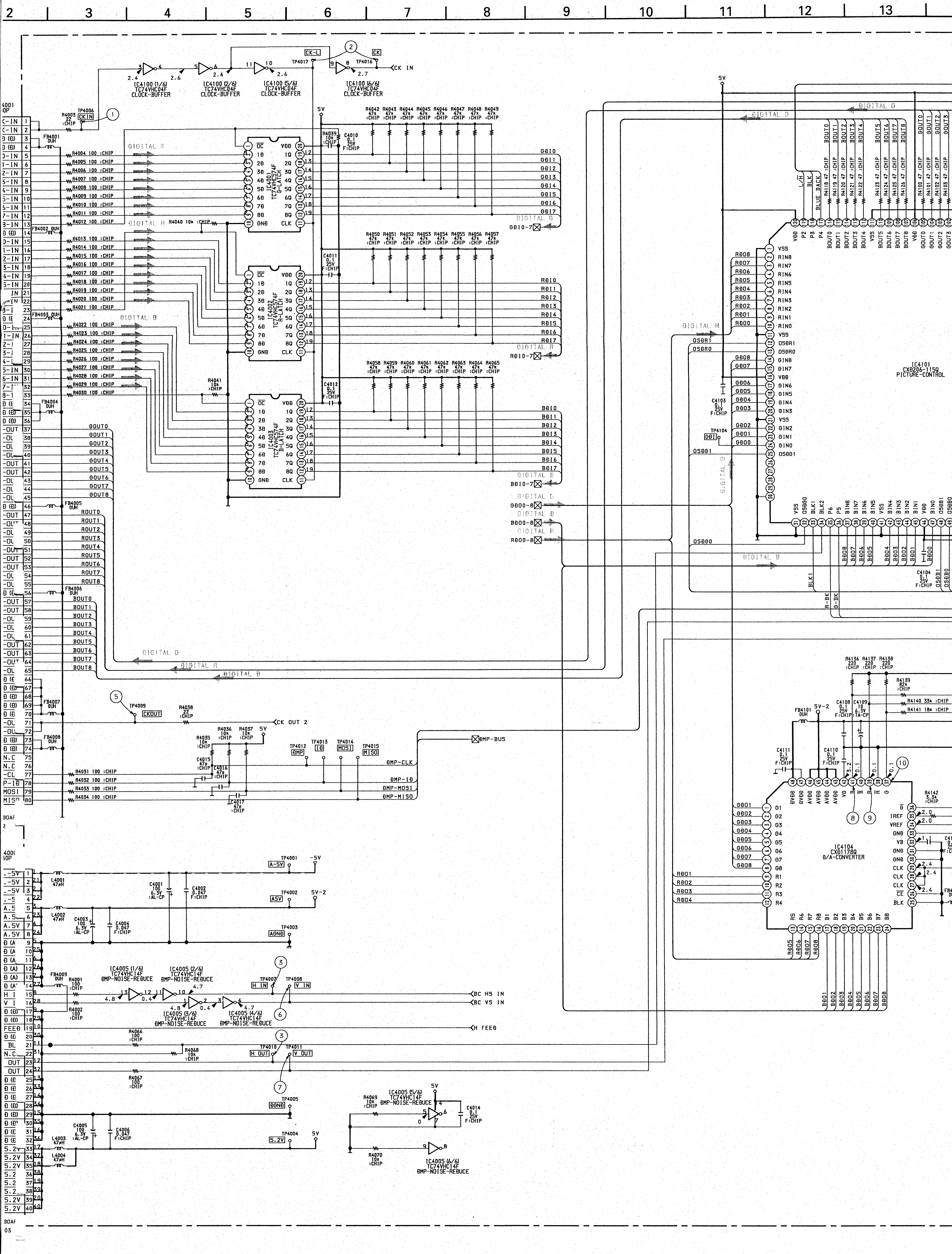
IC4100 (2/6)
TC74VHC04F
CLOCK-BUFFER
IC4100 (5/6)
TC74VHC04F
CLOCK-BUFFER
IC4100 (6/6)
TC74VHC04F
CLOCK-BUFFER
CK-L
CK
TP4017
TP4016
CK IN
IC4001
TC74VHC574F
G-LATCH
IC4002
TC74VHC574F
R-LATCH
IC4003
TC74VHC574F
B-LATCH
DIGITAL G
DIGITAL R
DIGITAL B
GD10-7
RD10-7
BD10-7
GD00-8
BD00-8
RD00-8
IC4101
CXD8206-115Q
PICTURE-CONTROL
IC4104
CXD1178Q
D/A-CONVERTER
DMP-BUS
DMP-CLK
DMP-IO
DMP-MOSI
DMP-MISO
CK OUT 2
TP4001 A-5V -5V
TP4002 A5V 5V-2
TP4003 AGND
TP4005 DGND
TP4004 5.2V 5V
IC4005 (2/6)
TC74VHC14F
DMP-NOISE-REDUCE
IC4005 (3/6)
TC74VHC14F
DMP-NOISE-REDUCE
IC4005 (4/6)
TC74VHC14F
DMP-NOISE-REDUCE
IC4005 (5/6)
TC74VHC14F
DMP-NOISE-REDUCE
IC4005 (6/6)
TC74VHC14F
DMP-NOISE-REDUCE
BC HS IN
BC VS IN
H FEED
H IN
V IN
H OUT
V OUT
B4102
152837
LPF
FB4101
FB4102
OSDR1
OSDR0
OSDG1
OSDG0
BLK1
R-BK
G-BK

2
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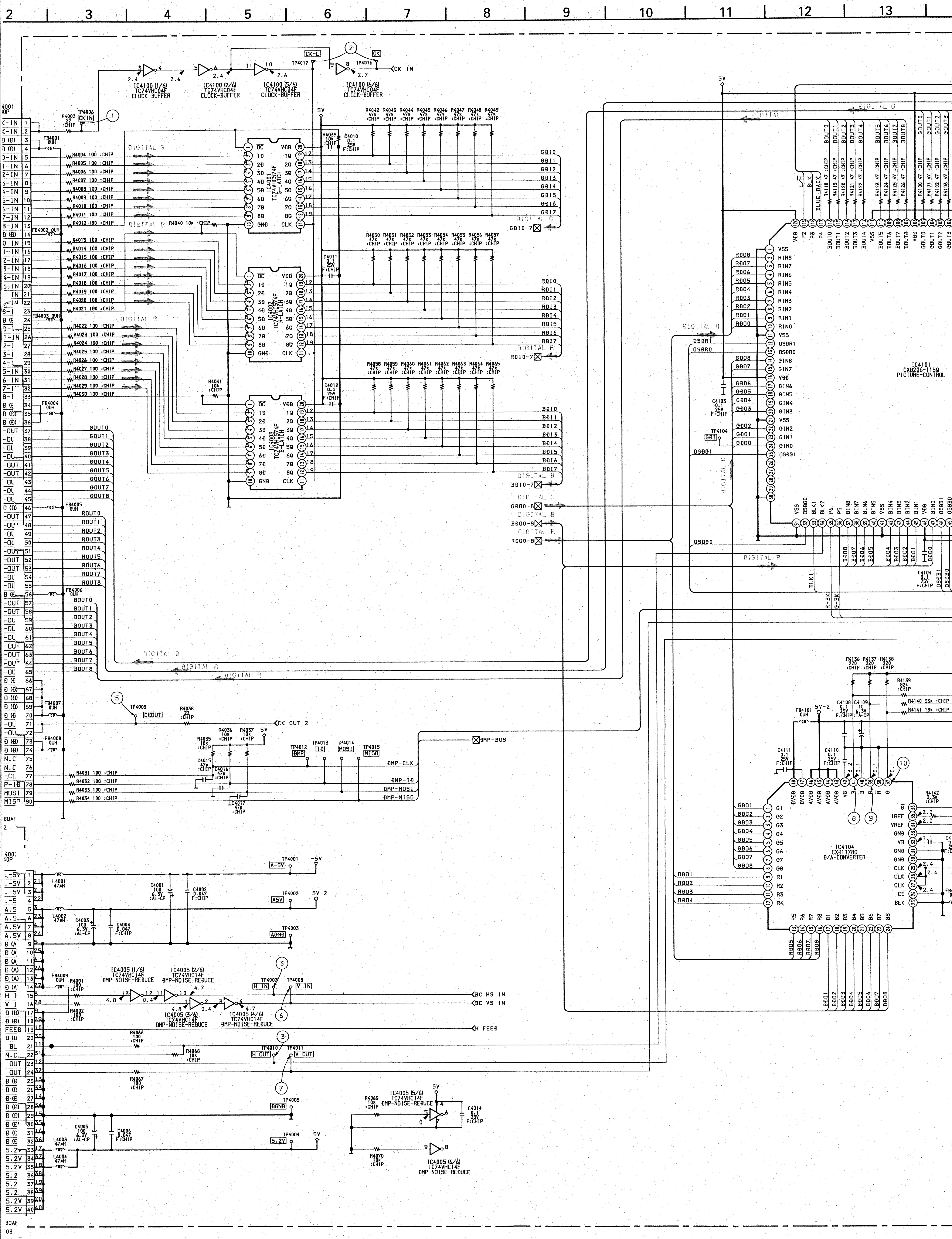
13
IC4100 (1/6) TC74VHC04F CLOCK-BUFFER
IC4100 (2/6) TC74VHC04F CLOCK-BUFFER
IC4100 (5/6) TC74VHC04F CLOCK-BUFFER
IC4100 (6/6) TC74VHC04F CLOCK-BUFFER
CK-L
CK
CK IN
CKIN
TP4006
TP4017
TP4016
IC4001 TC74VHC574F G-LATCH
IC4002 TC74VHC574F R-LATCH
IC4003 TC74VHC574F B-LATCH
DIGITAL G
DIGITAL R
DIGITAL B
GD10-7
RD10-7
BD10-7
GD00-8
BD00-8
RD00-8
IC4101 CXD2206-115Q PICTURE-CONTROL
IC4104 CXD1178Q D/A-CONVERTER
CKOUT
CK OUT 2
TP4009
DMP-BUS
DMP-CLK
DMP-ID
DMP-MOSI
DMP-MISO
DMP
ID
MOSI
MISO
A-5V
A5V
AGND
5V-2
-5V
5V
IC4005 (1/6) TC74VHC14F DMP-NOISE-REDUCE
IC4005 (2/6) TC74VHC14F DMP-NOISE-REDUCE
IC4005 (3/6) TC74VHC14F DMP-NOISE-REDUCE
IC4005 (4/6) TC74VHC14F DMP-NOISE-REDUCE
IC4005 (5/6) TC74VHC14F DMP-NOISE-REDUCE
IC4005 (6/6) TC74VHC14F DMP-NOISE-REDUCE
H IN
V IN
BC HS IN
BC VS IN
H FEED
H OUT
V OUT
DGND
5.2V
L4001 47µH
L4002 47µH
L4003 47µH
L4004 47µH
C4001 100 6.3V :AL-CP
C4002 0.047 F:CHIP
C4003 100 6.3V :AL-CP
C4004 0.047 F:CHIP
C4005 100 6.3V :AL-CP
C4006 0.047 F:CHIP
C4014 0.1 25V F:CHIP
FB4101 0UH
R4136 220 :CHIP
R4137 220 :CHIP
R4138 220 :CHIP
R4139 82k :CHIP
R4140 33k :CHIP
R4141 18k :CHIP
R4142 3.3k :CHIP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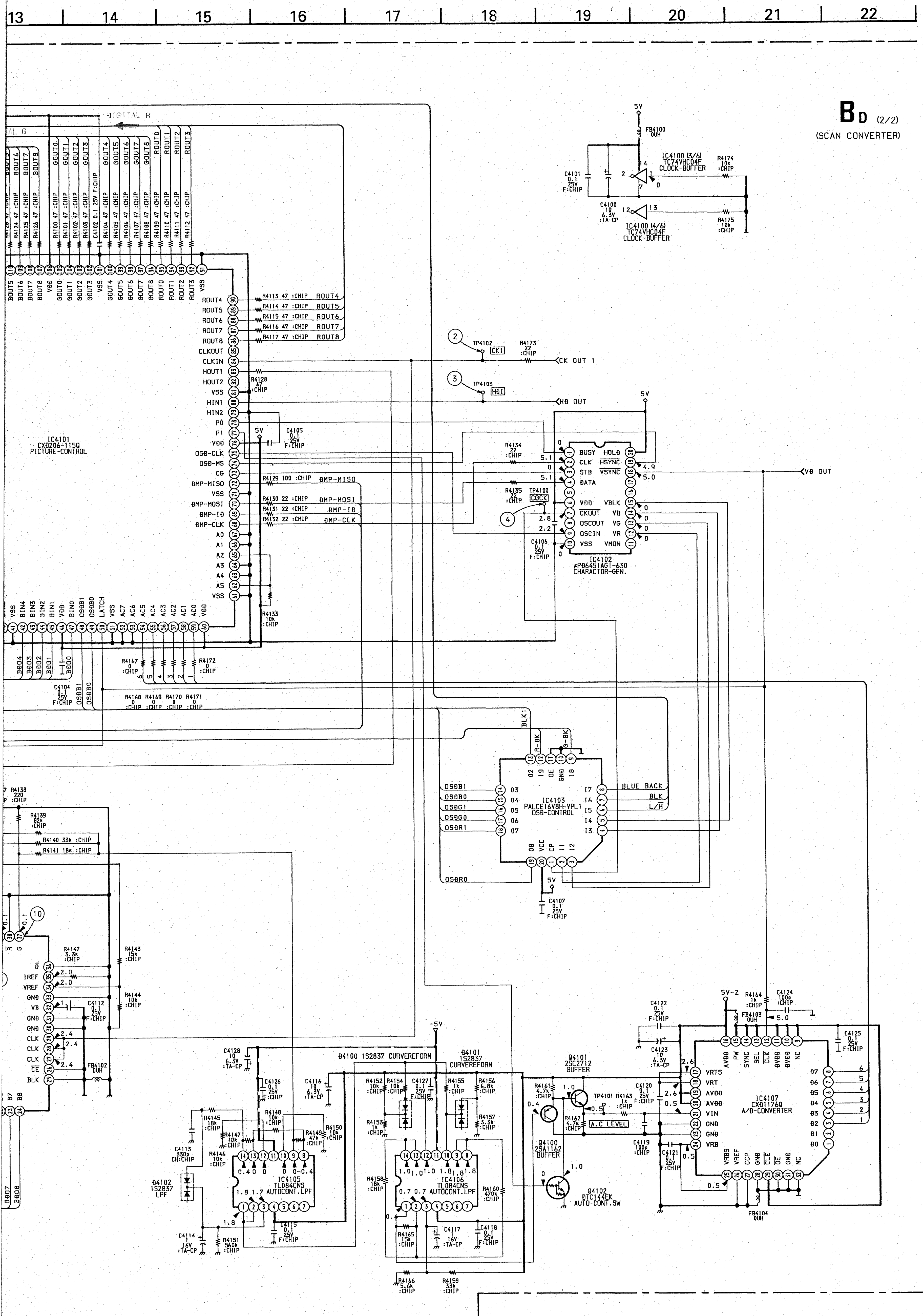
IC4100 (1/6) TC74VHC04F CLOCK-BUFFER
IC4100 (2/6) TC74VHC04F CLOCK-BUFFER
IC4100 (5/6) TC74VHC04F CLOCK-BUFFER
IC4100 (6/6) TC74VHC04F CLOCK-BUFFER
CK-L
CK
CK IN
TP4006 CKIN
TP4016
TP4017
IC4001 TC74VHC574F G-LATCH
IC4002 TC74VHC574F R-LATCH
IC4003 TC74VHC574F B-LATCH
DIGITAL G
DIGITAL R
DIGITAL B
GD10-7
RD10-7
BD10-7
GD00-8
BD00-8
RD00-8
IC4101 CXD2206-115Q PICTURE-CONTROL
IC4104 CXD1178Q D/A-CONVERTER
TP4009 CKOUT
CK OUT 2
DMP-BUS
TP4012 DMP
TP4013 ID
TP4014 MOSI
TP4015 MISO
DMP-CLK
DMP-ID
DMP-MOSI
DMP-MISO
TP4001 A-5V
-5V
TP4002 A5V
5V-2
TP4003 AGND
IC4005 (1/6) TC74VHC14F DMP-NOISE-REDUCE
IC4005 (2/6) TC74VHC14F DMP-NOISE-REDUCE
IC4005 (3/6) TC74VHC14F DMP-NOISE-REDUCE
IC4005 (4/6) TC74VHC14F DMP-NOISE-REDUCE
IC4005 (5/6) TC74VHC14F DMP-NOISE-REDUCE
IC4005 (6/6) TC74VHC14F DMP-NOISE-REDUCE
TP4007 H IN
TP4008 V IN
BC HS IN
BC VS IN
H FEED
TP4010 H OUT
TP4011 V OUT
TP4005 DGND
TP4004 5.2V
5V

B D (2/2)

(SCAN CONVERTER)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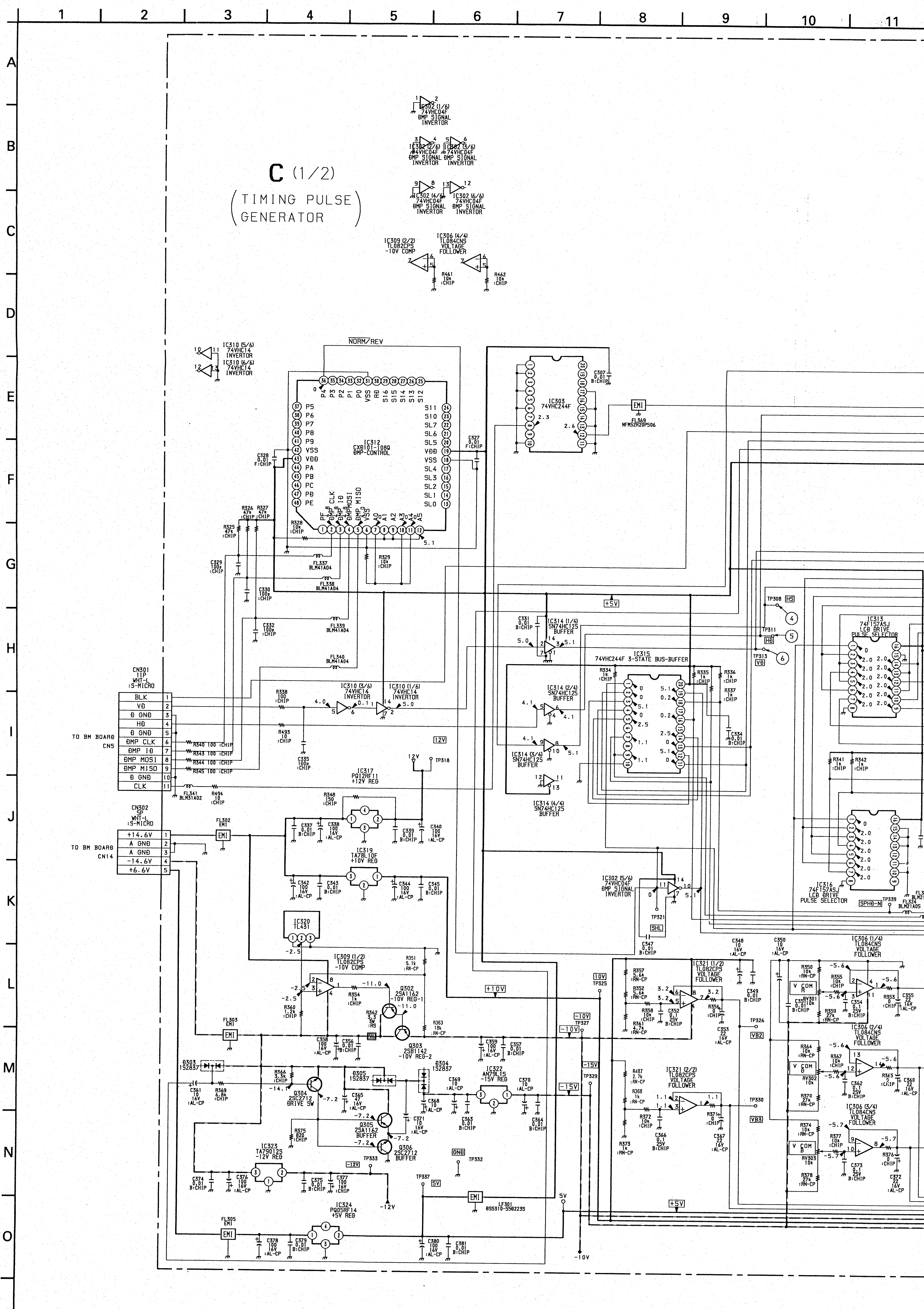
DIGITAL R
IC4101
CXD206-115Q
PICTURE-CONTROL
ROUT4
ROUT5
ROUT6
ROUT7
ROUT8
CLKOUT
CLKIN
HOUT1
HOUT2
VSS
HIN1
HIN2
P0
P1
VDD
OSD-CLK
OSD-MS
CG
DMP-MISO
DMP-MOSI
DMP-ID
DMP-CLK
A0
A1
A2
A3
A4
A5
R4128 47 :CHIP
C4105 0.1 25V F:CHIP
R4129 100 :CHIP
R4130 22 :CHIP
R4131 22 :CHIP
R4132 22 :CHIP
R4133 10k :CHIP
R4113 47 :CHIP
R4114 47 :CHIP
R4115 47 :CHIP
R4116 47 :CHIP
R4117 47 :CHIP
C4104 0.1 25V F:CHIP
R4167 0 :CHIP
R4172 0 :CHIP
R4168 R4169 R4170 R4171 0 0 0 0 :CHIP :CHIP :CHIP :CHIP
5V
FB4100 0UH
C4101 0.1 25V F:CHIP
C4100 10 6.3V :TA-CP
IC4100 (3/6) TC74VHC04F CLOCK-BUFFER
IC4100 (4/6) TC74VHC04F CLOCK-BUFFER
R4174 10k :CHIP
R4175 10k :CHIP
TP4102 CK1
R4173 22 :CHIP
CK OUT 1
TP4103 HD1
HD OUT
VD OUT
R4134 22 :CHIP
R4135 22 :CHIP
TP4100 CGCK
BUSY
HOLD
CLK
HSYNC
STB
VSYNC
DATA
VDD
VBLK
CKOUT
VB
OSCOUT
VG
OSCIN
VR
VSS
VMON
C4106 0.1 25V F:CHIP
IC4102
µPD6451AGT-630
CHARACTOR-GEN.
BLK1
R-BK
G-BK
OSDB1
OSDB0
OSDG1
OSDG0
OSDR1
OSDR0
IC4103
PALCE16V8H-VPL1
OSD-CONTROL
BLUE BACK
BLK
L/H
C4107 0.1 25V F:CHIP
R4138 220 :CHIP
R4139 82k :CHIP
R4140 33k :CHIP
R4141 18k :CHIP
R4142 3.3k :CHIP
R4143 15k :CHIP
R4144 10k :CHIP
IREF
VREF
GND
VB
CLK
CE
BLK
C4112 0.1 25V F:CHIP
FB4102 0UH
C4128 10 6.3V :TA-CP
C4126 0.1 25V F:CHIP
C4116 10 6.3V :TA-CP
C4113 330p CH:CHIP
D4102 1S2837 LPF
R4145 18k :CHIP
R4146 10k :CHIP
R4147 10k :CHIP
R4148 10k :CHIP
R4149 47k :CHIP
R4150 10k :CHIP
IC4105
TL084CNS
AUTOCONT.LPF
C4114 16V :TA-CP
R4151 560k :CHIP
C4115 0.1 25V F:CHIP
-5V
D4100 1S2837 CURVEREFORM
D4101 1S2837 CURVEREFORM
R4152 10k :CHIP
R4154 10k :CHIP
C4127 0.1 25V F:CHIP
R4155 1k :CHIP
R4156 6.8k :CHIP
R4153 1k :CHIP
R4157 3.3k :CHIP
IC4106
TL084CNS
AUTOCONT.LPF
R4158 18k :CHIP
R4160 470k :CHIP
R4165 15k :CHIP
C4117 16V :TA-CP
C4118 0.1 25V F:CHIP
R4166 5.6k :CHIP
R4159 33k :CHIP
Q4101 2SC2712 BUFFER
R4161 4.7k :CHIP
R4162 4.7k :CHIP
TP4101
R4163 1k :CHIP
A.C LEVEL
Q4100 2SA1162 BUFFER
Q4102 DTC144EK AUTO-CONT.SW
C4119 100p :CHIP
C4120 0.1 F:CHIP
C4121 0.1 25V F:CHIP
C4122 0.1 25V F:CHIP
C4123 10 6.3V :TA-CP
5V-2
R4164 1k :CHIP
C4124 100p :CHIP
FB4103 0UH
C4125 0.1 25V F:CHIP
IC4107
CXD1176Q
A/D-CONVERTER
VRTS
VRT
AVDD
VIN
GND
VRB
VRBS
VREF
CCP
CLE
OE
NC
D7
D6
D5
D4
D3
D2
D1
D0
FB4104 0UH



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A
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D
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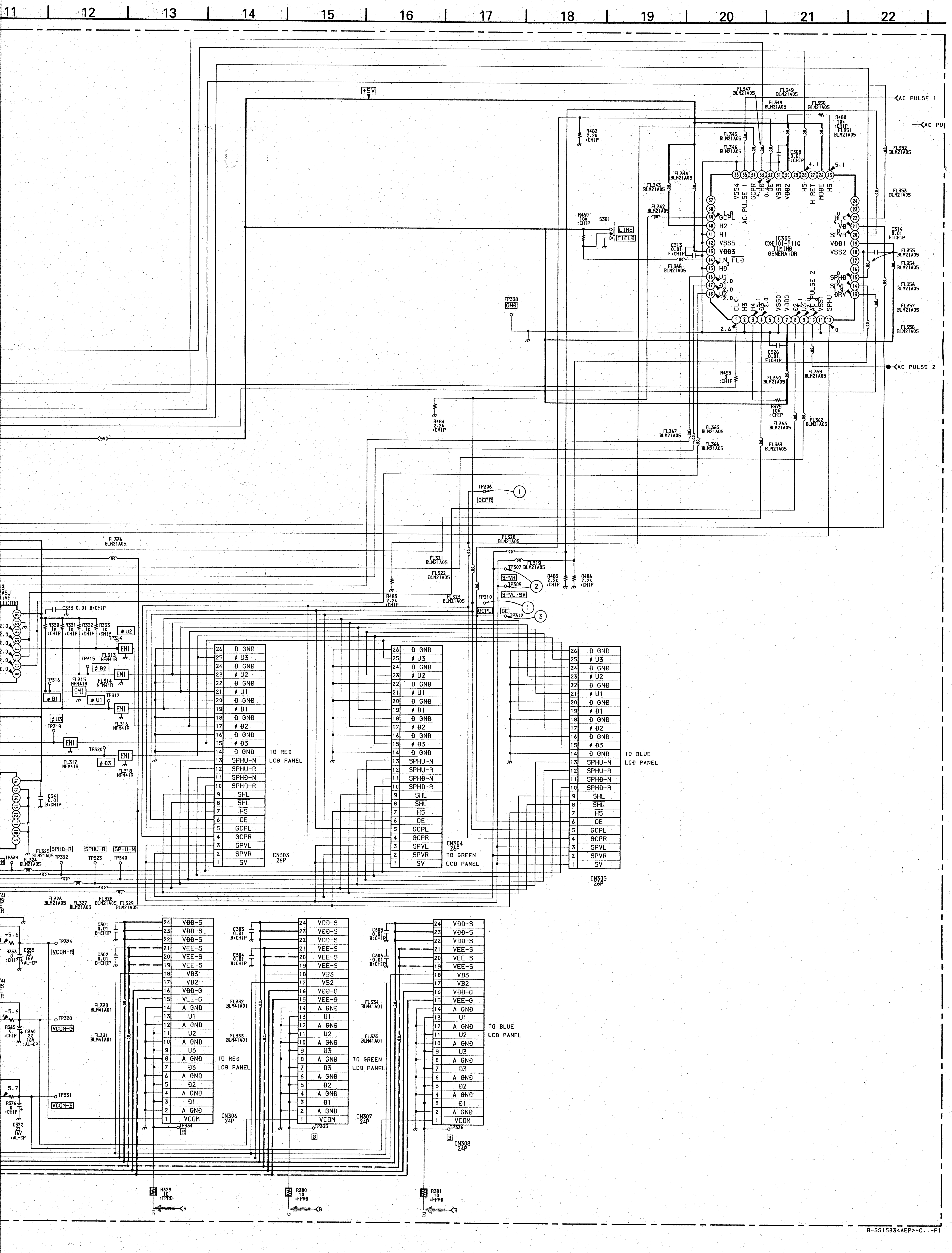
F
G
H
I
J
K
L
M
N
O
C (1/2)
TIMING PULSE GENERATOR
IC302 (1/6) 74VHC04F ΘMP SIGNAL INVERTOR
IC302 (2/6) 74VHC04F ΘMP SIGNAL INVERTOR
IC302 (3/6) 74VHC04F ΘMP SIGNAL INVERTOR
IC302 (4/6) 74VHC04F ΘMP SIGNAL INVERTOR
IC302 (6/6) 74VHC04F ΘMP SIGNAL INVERTOR
IC309 (2/2) TL082CPS -10V COMP
IC306 (4/4) TL084CNS VOLTAGE FOLLOWER
R461 10k :CHIP
R462 10k :CHIP
IC310 (5/6) 74VHC14 INVERTOR
IC310 (6/6) 74VHC14 INVERTOR
NORM/REV
IC312 CXB101-108Q ΘMP-CONTROL
C328 0.01 F:CHIP
C327 0.01 F:CHIP
R326 47k :CHIP
R327 47k :CHIP
R325 47k :CHIP
R328 10k :CHIP
R329 10k :CHIP
C329 100p :CHIP
C330 100p :CHIP
C332 100p :CHIP
FL337 BLM41A04
FL338 BLM41A04
FL339 BLM41A04
FL340 BLM41A04
IC303 74VHC244F
C307 0.01 B:CHIP
EMI
FL369 NFM52R20PS06
+5V
TP308 HS
TP311 HΘ
TP313 VΘ
IC313 74F157ASJ LCΘ DRIVE PULSE SELECTOR
IC314 (1/4) SN74HC125 BUFFER
IC314 (2/4) SN74HC125 BUFFER
IC314 (3/4) SN74HC125 BUFFER
IC314 (4/4) SN74HC125 BUFFER
IC315 74VHC244F 3-STATE BUS-BUFFER
C331 0.01 B:CHIP
R334 1k :CHIP
R335 1k :CHIP
R336 1k :CHIP
R337 1k :CHIP
C334 0.01 B:CHIP
R341 1k :CHIP
R342 1k :CHIP
CN301 11P WHT-L :S-MICRO
BLK
VΘ
Θ GNΘ
HΘ
Θ GNΘ
ΘMP CLK
ΘMP IΘ
ΘMP MOSI
ΘMP MISO
Θ GNΘ
CLK
TO BM BOARΘ CN5
R340 100 :CHIP
R343 100 :CHIP
R344 100 :CHIP
R345 100 :CHIP
R338 100 :CHIP
R493 10 :CHIP
C335 100p :CHIP
IC310 (3/6) 74VHC14 INVERTOR
IC310 (1/6) 74VHC14 INVERTOR
FL341 BLM31A02
R494 10 :CHIP
12V
TP318
IC317 PQ12RF11 +12V REG
CN302 5P WHT-L :S-MICRO
+14.6V
A GNΘ
A GNΘ
-14.6V
+6.6V
TO BM BOARΘ CN14
FL302 EMI
R348 150 :CHIP
C337 0.01 B:CHIP
C338 100 16V :AL-CP
C339 0.01 B:CHIP
C340 100 16V :AL-CP
IC319 TA78L10F +10V REG
C342 100 16V :AL-CP
C343 0.01 B:CHIP
C344 100 16V :AL-CP
C345 0.01 B:CHIP
IC302 (5/6) 74VHC04F ΘMP SIGNAL INVERTOR
TP321
SHL
C347 0.01 B:CHIP
IC316 74F157ASJ LCΘ DRIVE PULSE SELECTOR
SPHΘ-N
TP339
IC320 TL431
IC309 (1/2) TL082CPS -10V COMP
R351 5.1k :RN-CP
R360 1.2k :CHIP
R354 1k :CHIP
Q302 2SA1162 -10V REG-1
R362 3.3 1W :RS
R363 18k :RN-CP
Q303 2SB1142 -10V REG-2
10V TP325
+10V
-10V TP327
-15V TP329
FL303 EMI
C358 100 16V :AL-CP
C356 0.01 B:CHIP
C359 100 16V :AL-CP
C357 0.01 B:CHIP
D303 1S2837
R366 3.3k :CHIP
Q305 1S2837
Q304 1S2837
C361 10 16V :AL-CP
R369 6.8k :CHIP
Q304 2SC2712 DRIVE SW
C365 47 16V :AL-CP
Q305 2SA1162 BUFFER
Q306 2SC2712 BUFFER
R375 820 :CHIP
C369 10 :AL-CP
C368 10 :AL-CP
C371 10 16V :AL-CP
IC322 AN79L15 -15V REG
C370 10 :AL-CP
C363 0.01 B:CHIP
C364 0.01 B:CHIP
IC323 TA79012S -12V REG
-12V TP333
GNΘ TP332
C374 0.01 B:CHIP
C376 100 16V :AL-CP
C375 0.01 B:CHIP
C377 100 16V :CHIP
-12V
TP337 5V
EMI
LF301 0SS310-550223S
5V
IC324 PQ05RF14 +5V REG
FL305 EMI
C378 100 16V :AL-CP
C379 0.01 B:CHIP
C380 100 16V :AL-CP
C381 0.01 B:CHIP
-10V
+5V
C348 10 16V :AL-CP
IC321 (1/2) TL082CPS VOLTAGE FOLLOWER
R357 5.6k :RN-CP
R352 5.6k :RN-CP
R358 10k :CHIP
R361 4.7k :RN-CP
C352 0.1 25V B:CHIP
R356 0 :CHIP
C349 0.01 B:CHIP
C353 22 16V :AL-CP
TP326 VB2
IC321 (2/2) TL082CPS VOLTAGE FOLLOWER
R487 2.7k :RN-CP
R368 1k :RN-CP
R372 10k :CHIP
R373 1k :RN-CP
C366 0.1 25V B:CHIP
R371 0 :CHIP
C367 22 16V :AL-CP
TP330 VB3
C350 10 16V :AL-CP
IC306 (1/4) TL084CNS VOLTAGE FOLLOWER
V COM R
RV301 10k
R350 10k :RN-CP
R355 10k :CHIP
C351 0.01 B:CHIP
R359 27k :RN-CP
C354 0.1 25V B:CHIP
R353 0 :CHIP
C355 22 16V :AL-CP
IC306 (2/4) TL084CNS VOLTAGE FOLLOWER
V COM G
RV302 10k
R364 10k :RN-CP
R367 10k :CHIP
R370 27k :RN-CP
C362 0.1 25V B:CHIP
R365 0 :CHIP
C360 22 16V :AL-CP
IC306 (3/4) TL084CNS VOLTAGE FOLLOWER
V COM B
RV303 10k
R374 10k :RN-CP
R377 10k :CHIP
R378 27k :RN-CP
C373 0.1 25V B:CHIP
R376 0 :CHIP
C372 22 16V :AL-CP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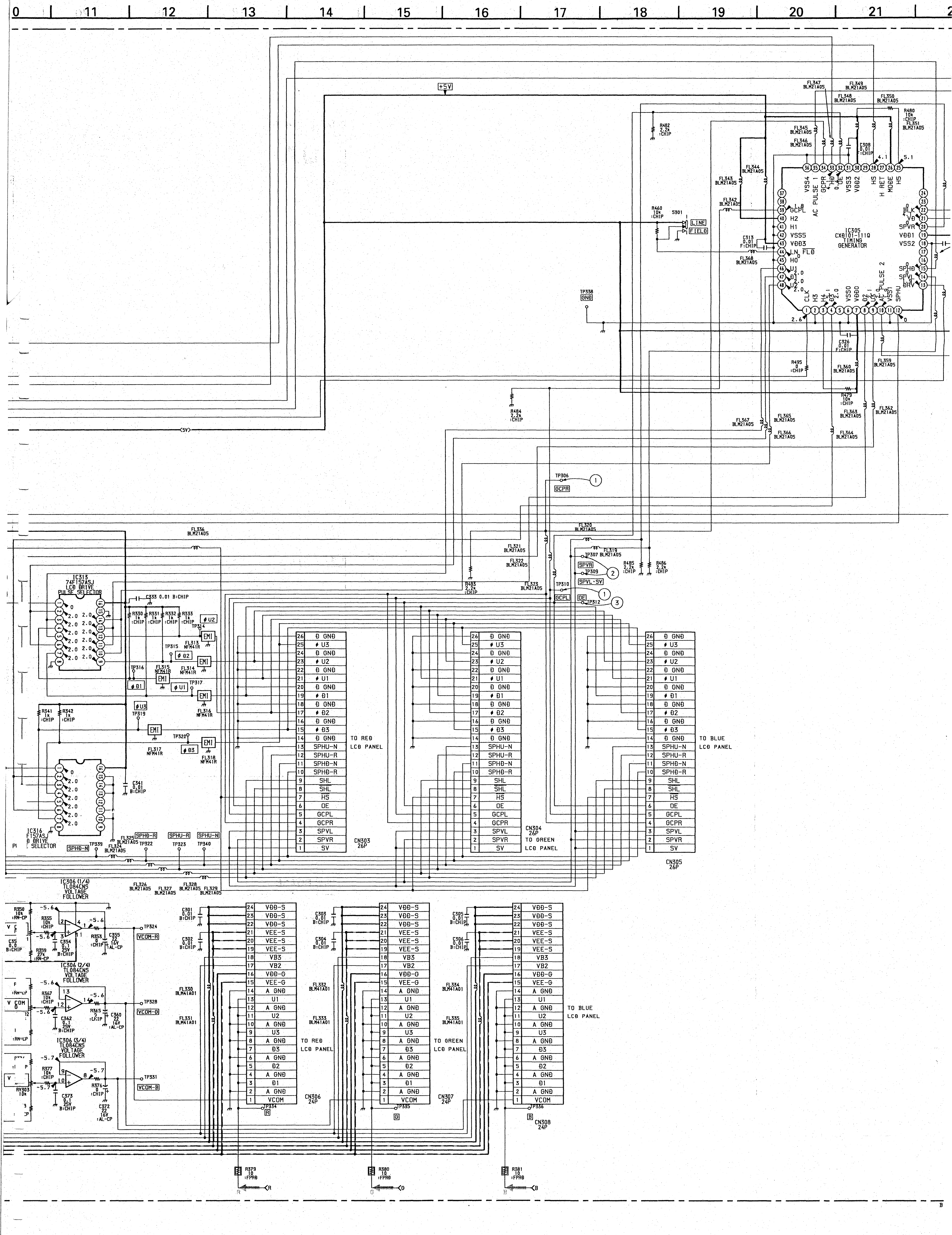
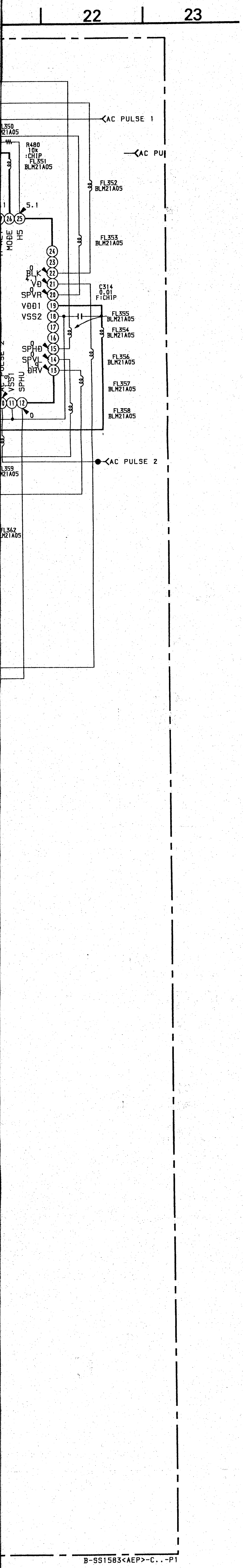
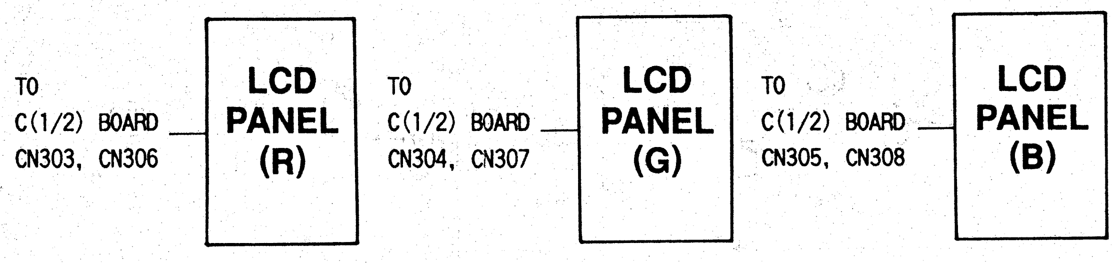
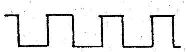
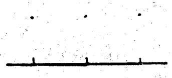
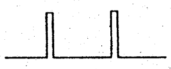
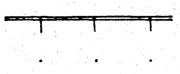
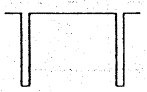
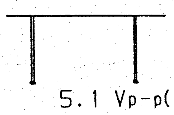
+5V
AC PULSE 1
AC PULSE 2
IC305
CX0101-111Q
TIMING GENERATOR
VSS4
AC PULSE 1
GCPR
HD
OE
VSS3
VDD2
HS
H RET
MODE
HS
GCPL
H2
H1
VSS5
VDD3
LN FLD
H0
U1
D1
U2
BLK
VD
SPVR
VDD1
VSS2
SPHD
SPVL
DRV
CLK
H3
H4
D3
VSS0
VDD0
D2
U2
U3
PULSE 2
VSS1
SPHU
S301
LINE
FIELD
R460 10k :CHIP
R482 2.2k :CHIP
R480 10k :CHIP
R479 10k :CHIP
R484 2.2k :CHIP
R483 2.2k :CHIP
R485 2.2k :CHIP
R486 2.2k :CHIP
R495 0 :CHIP
C308 0.01 :CHIP
C313 0.01 F:CHIP
C314 0.01 F:CHIP
C326 0.01 F:CHIP
C333 0.01 B:CHIP
C341 0.01 B:CHIP
TP338 GND
TP306 GCPR
TP307 SPVR
TP309 SPVL·SV
TP310 GCPL
TP312 OE
FL336 BLM21A05
FL320 BLM21A05
FL319 BLM21A05
FL321 BLM21A05
FL322 BLM21A05
FL323 BLM21A05
FL313 NFM41R
FL314 NFM41R
FL315 NFM41R
FL316 NFM41R
FL317 NFM41R
FL318 NFM41R
EMI
TP314 φU2
TP315 φD2
TP316 φD1
TP317 φU1
TP319 φU3
TP320 φD3
TP322 SPHD-R
TP323 SPHU-R
TP340 SPHU-N
TP339
CN303 26P
TO RED LCD PANEL
CN304 26P TO GREEN LCD PANEL
CN305 26P
TO BLUE LCD PANEL
26 D GND
25 φU3
24 D GND
23 φU2
22 D GND
21 φU1
20 D GND
19 φD1
18 D GND
17 φD2
16 D GND
15 φD3
14 D GND
13 SPHU-N
12 SPHU-R
11 SPHD-N
10 SPHD-R
9 SHL
8 SHL
7 HS
6 OE
5 GCPL
4 GCPR
3 SPVL
2 SPVR
1 SV
CN306 24P
TO RED LCD PANEL
CN307 24P
TO GREEN LCD PANEL
CN308 24P
TO BLUE LCD PANEL
24 VDD-S
23 VDD-S
22 VDD-S
21 VEE-S
20 VEE-S
19 VEE-S
18 VB3
17 VB2
16 VDD-G
15 VEE-G
14 A GND
13 U1
12 A GND
11 U2
10 A GND
9 U3
8 A GND
7 D3
6 A GND
5 D2
4 A GND
3 D1
2 A GND
1 VCOM
C301 0.01 B:CHIP
C302 0.01 B:CHIP
C303 0.01 B:CHIP
C304 0.01 B:CHIP
C305 0.01 B:CHIP
C306 0.01 B:CHIP
C355 22 16V :AL-CP
C360 22 16V :AL-CP
C372 22 16V :AL-CP
R353 0 :CHIP
R365 0 :CHIP
R376 0 :CHIP
TP324 VCOM-R
TP328 VCOM-G
TP331 VCOM-B
TP334 R
TP335 G
TP336 B
FL330 BLM41A01
FL331 BLM41A01
FL332 BLM41A01
FL333 BLM41A01
FL334 BLM41A01
FL335 BLM41A01
R379 10 :FPRD
R380 10 :FPRD
R381 10 :FPRD
R
G
B
-5.6
-5.6
-5.7
B-SS1583<AEP>-C..-P1

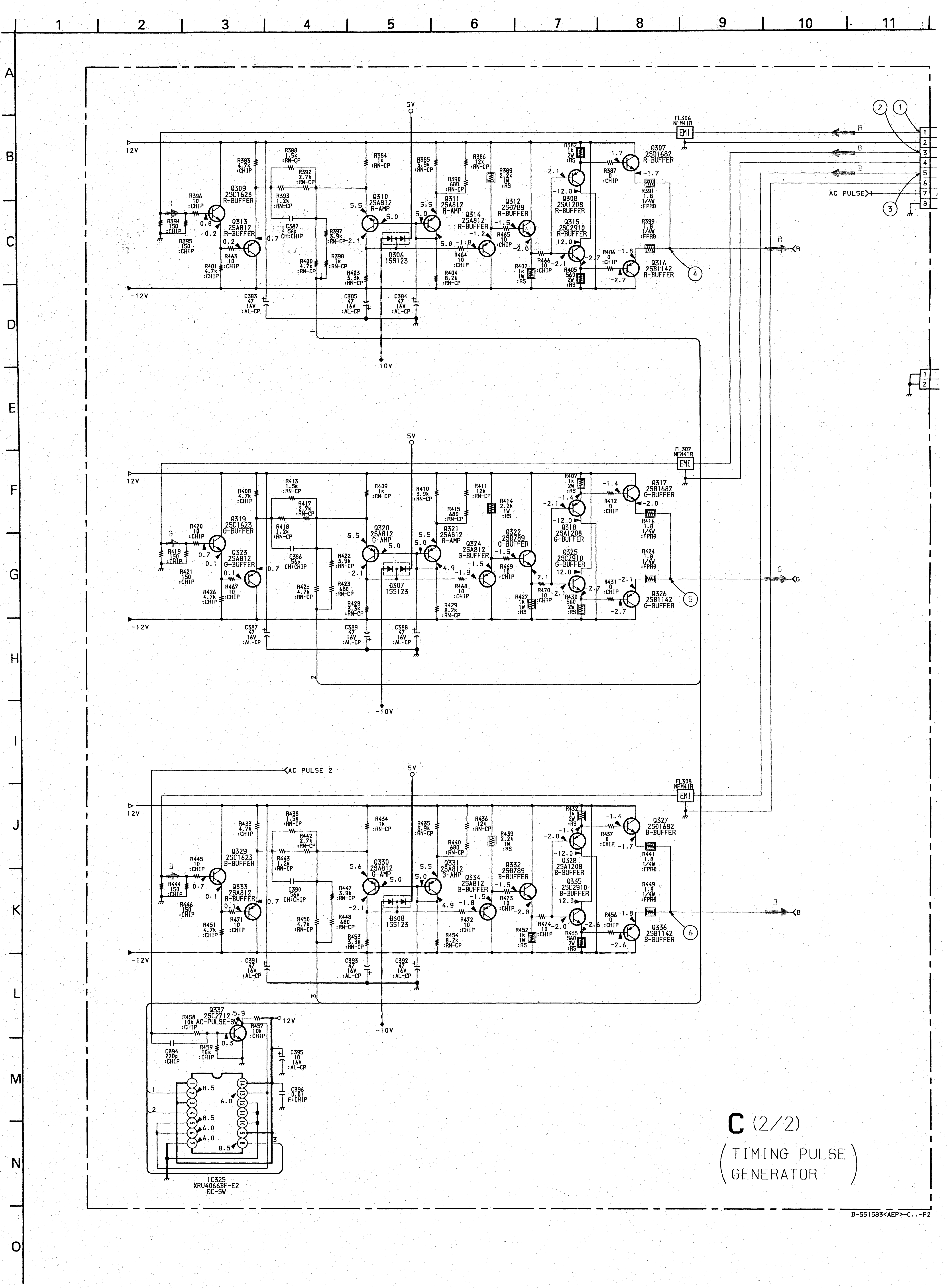

10
11
12
13
14
15
16
17
18
19
20
21
+5V
IC305
CXD101-111Q
TIMING
GENERATOR
VSS4
AC PULSE 1
GCPR
HD
OE
VSS3
VDD2
HS
H RET
MODE
H5
GCPL
H2
H1
VSS5
VDD3
LN FLD
HD
U1
D1
U2
CLK
H3
H4
D3
VSS0
VDD0
D2
U3
AC PULSE 2
VSS1
SPHU
BLK
VD
SPVR
VDD1
VSS2
SPHD
SPVL
DRV
S301
LINE
FIELD
R482 2.2k :CHIP
R460 10k :CHIP
R480 10k :CHIP
R479 10k :CHIP
R495 0 :CHIP
R484 2.2k :CHIP
R483 2.2k :CHIP
R485 2.2k :CHIP
R486 2.2k :CHIP
C308 0.01 F:CHIP
C313 0.01 F:CHIP
C326 0.01 F:CHIP
FL342 BLM21A05
FL343 BLM21A05
FL344 BLM21A05
FL345 BLM21A05
FL346 BLM21A05
FL347 BLM21A05
FL348 BLM21A05
FL349 BLM21A05
FL350 BLM21A05
FL351 BLM21A05
FL359 BLM21A05
FL360 BLM21A05
FL362 BLM21A05
FL363 BLM21A05
FL364 BLM21A05
FL365 BLM21A05
FL366 BLM21A05
FL367 BLM21A05
FL368 BLM21A05
TP338 GND
TP306 GCPR
TP307 SPVR
TP309 SPVL·SV
TP310 GCPL
TP312 OE
FL319 BLM21A05
FL320 BLM21A05
FL321 BLM21A05
FL322 BLM21A05
FL323 BLM21A05
FL336 BLM21A05
(5V)
IC313
74F157ASJ
LCD DRIVE
PULSE SELECTOR
C333 0.01 B:CHIP
R330 1k :CHIP
R331 1k :CHIP
R332 1k :CHIP
R333 1k :CHIP
ϕU2
ϕD2
ϕD1
ϕU1
ϕU3
ϕD3
EMI
TP314
TP315
TP316
TP317
TP319
TP320
FL313 NFM41R
FL314 NFM41R
FL315 NFM41R
FL316 NFM41R
FL317 NFM41R
FL318 NFM41R
R341 1k :CHIP
R342 1k :CHIP
C341 0.01 B:CHIP
IC316
F157ASJ
D DRIVE
PULSE SELECTOR
SPHD-R
SPHU-R
SPHU-N
SPHD-N
TP322
TP323
TP339
TP340
FL324 BLM21A05
FL325 BLM21A05
FL326 BLM21A05
FL327 BLM21A05
FL328 BLM21A05
FL329 BLM21A05
26 D GND
25 ϕU3
24 D GND
23 ϕU2
22 D GND
21 ϕU1
20 D GND
19 ϕD1
18 D GND
17 ϕD2
16 D GND
15 ϕD3
14 D GND
13 SPHU-N
12 SPHU-R
11 SPHD-N
10 SPHD-R
9 SHL
8 SHL
7 HS
6 OE
5 GCPL
4 GCPR
3 SPVL
2 SPVR
1 SV
TO RED LCD PANEL
CN303 26P
CN304 26P TO GREEN LCD PANEL
TO BLUE LCD PANEL
CN305 26P
IC306 (1/4) TL084CNS VOLTAGE FOLLOWER
IC306 (2/4) TL084CNS VOLTAGE FOLLOWER
IC306 (3/4) TL084CNS VOLTAGE FOLLOWER
R350 10k :RN-CP
R355 10k :CHIP
R359 27k :RN-CP
R353 0 :CHIP
C354 0.1 25V B:CHIP
C355 22 16V :AL-CP
R367 10k :CHIP
R365 0 :CHIP
C362 0.1 25V B:CHIP
C360 22 16V :AL-CP
R377 10k :CHIP
R376 0 :CHIP
C373 0.1 25V B:CHIP
C372 22 16V :AL-CP
RV303 10k
V COM
TP324 VCOM-R
TP328 VCOM-G
TP331 VCOM-B
C301 0.01 B:CHIP
C302 0.01 B:CHIP
C303 0.01 B:CHIP
C304 0.01 B:CHIP
C305 0.01 B:CHIP
C306 0.01 B:CHIP
24 VDD-S
23 VDD-S
22 VDD-S
21 VEE-S
20 VEE-S
19 VEE-S
18 VB3
17 VB2
16 VDD-G
15 VEE-G
14 A GND
13 U1
12 A GND
11 U2
10 A GND
9 U3
8 A GND
7 D3
6 A GND
5 D2
4 A GND
3 D1
2 A GND
1 VCOM
FL330 BLM41A01
FL331 BLM41A01
FL332 BLM41A01
FL333 BLM41A01
FL334 BLM41A01
FL335 BLM41A01
TO RED LCD PANEL
CN306 24P
TO GREEN LCD PANEL
CN307 24P
TO BLUE LCD PANEL
CN308 24P
TP334 R
TP335 G
TP336 B
R379 10 :FPRD
R380 10 :FPRD
R381 10 :FPRD
R
G
B


22
23
AC PULSE 1
AC PU
FL350
BLM21A05
R480
10k
:CHIP
FL351
BLM21A05
FL352
BLM21A05
5.1
FL353
BLM21A05
MODE
HS
BLK
VD
SPVR
VDD1
VSS2
SPHD
SPVL
DRV
VSS1
SPHU
C314
0.01
F:CHIP
FL355
BLM21A05
FL354
BLM21A05
FL356
BLM21A05
FL357
BLM21A05
FL358
BLM21A05
AC PULSE 2
FL359
BLM21A05
FL362
BLM21A05
B-SS1583<AEP>-C..-P1


TO
C(1/2) BOARD
CN303, CN306
LCD PANEL (R)
TO
C(1/2) BOARD
CN304, CN307
LCD PANEL (G)
TO
C(1/2) BOARD
CN305, CN308
LCD PANEL (B)

C (1/2) BOARD

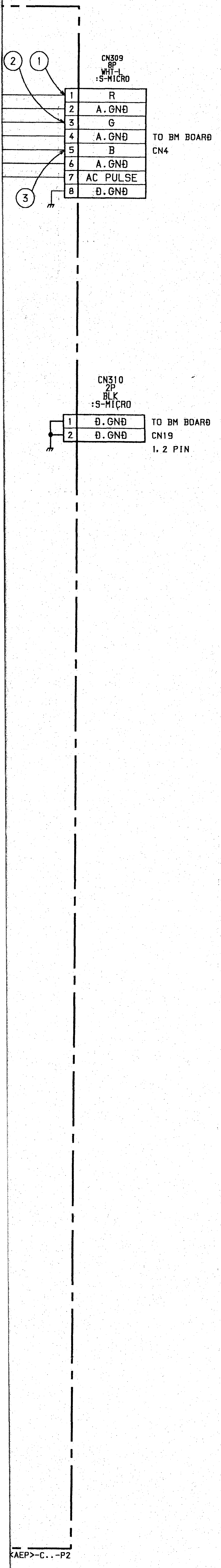
①  3.6 Vp-p(H)	②  3.6 Vp-p(V)	③  3.5 Vp-p(H)
④  5.0 Vp-p(H)	⑤  5.0 Vp-p(H)	⑥  5.1 Vp-p(V)


1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
5V
12V
-12V
-10V
FL306 NFM41R
FL307 NFM41R
FL308 NFM41R
EMI
Q307 2SD1682 R-BUFFER
Q308 2SA1208 R-BUFFER
Q309 2SC1623 R-BUFFER
Q310 2SA812 R-AMP
Q311 2SA812 R-AMP
Q312 2SD789 R-BUFFER
Q313 2SA812 R-BUFFER
Q314 2SA812 R-BUFFER
Q315 2SC2910 R-BUFFER
Q316 2SB1142 R-BUFFER
D306 1SS123
Q317 2SD1682 G-BUFFER
Q318 2SA1208 G-BUFFER
Q319 2SC1623 G-BUFFER
Q320 2SA812 G-AMP
Q321 2SA812 G-AMP
Q322 2SD789 G-BUFFER
Q323 2SA812 G-BUFFER
Q324 2SA812 G-BUFFER
Q325 2SC2910 G-BUFFER
Q326 2SB1142 G-BUFFER
D307 1SS123
Q327 2SD1682 B-BUFFER
Q328 2SA1208 B-BUFFER
Q329 2SC1623 B-BUFFER
Q330 2SA812 G-AMP
Q331 2SA812 G-AMP
Q332 2SD789 B-BUFFER
Q333 2SA812 B-BUFFER
Q334 2SA812 B-BUFFER
Q335 2SC2910 B-BUFFER
Q336 2SB1142 B-BUFFER
D308 1SS123
Q337 2SC2712 AC-PULSE-SW
IC325 XRU4066BF-E2 BC-SW
AC PULSE
AC PULSE 2
R
G
B
①
②
③
④
⑤
⑥

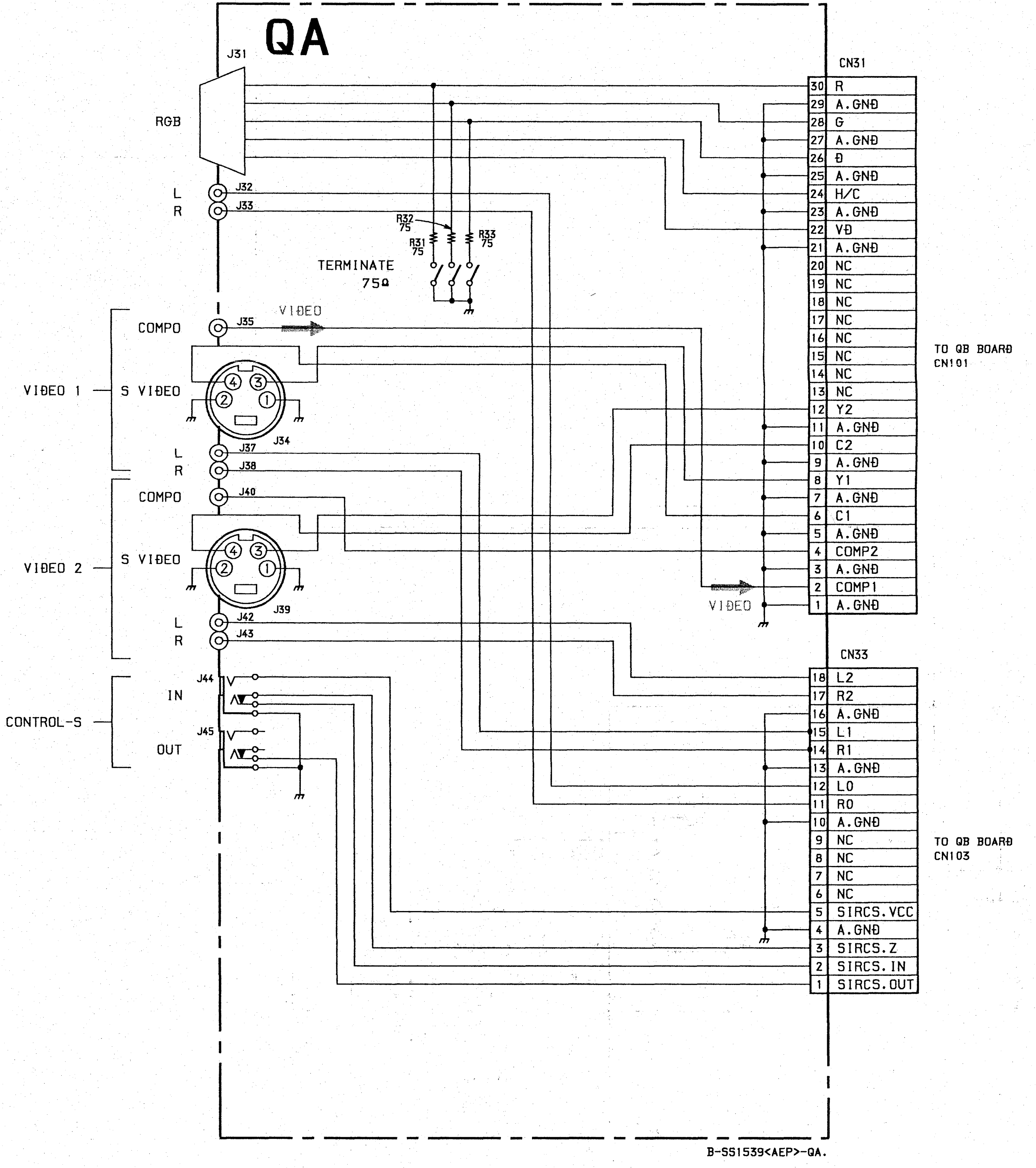
C (2/2)

(TIMING PULSE GENERATOR)

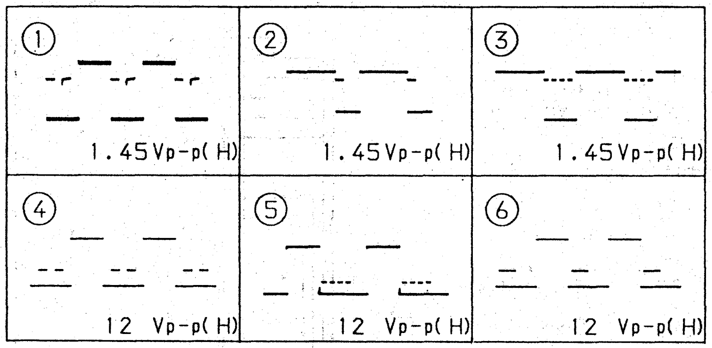
B-SS1583<AEP>-C..-P2

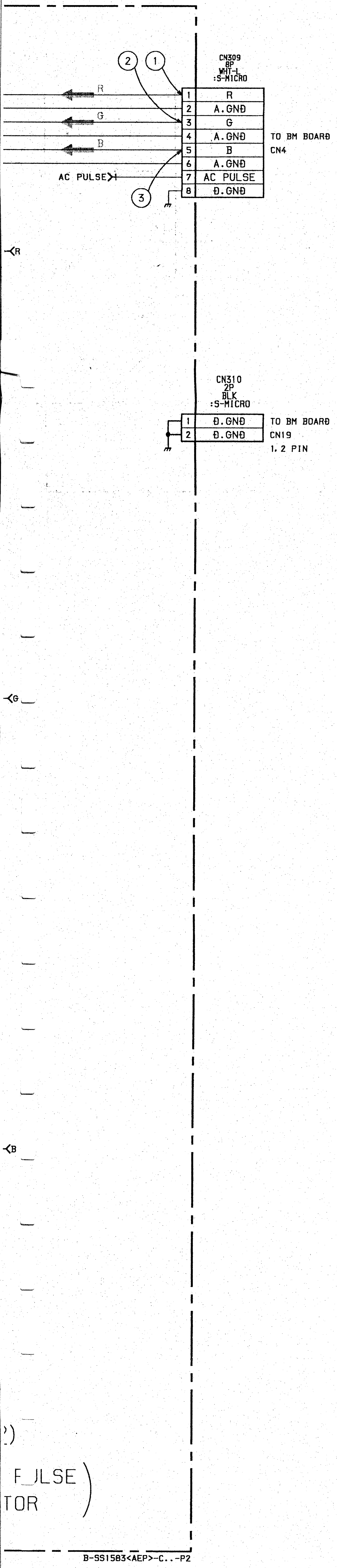

②
①
CN309
8P
WHT-L
:S-MICRO
1 R
2 A.GND
3 G
4 A.GND
5 B
6 A.GND
7 AC PULSE
8 D.GND
TO BM BOARD
CN4
③
CN310
2P
BLK
:S-MICRO
1 D.GND
2 D.GND
TO BM BOARD
CN19
1, 2 PIN
<AEP>-C..-P2

BOARD CHANGE

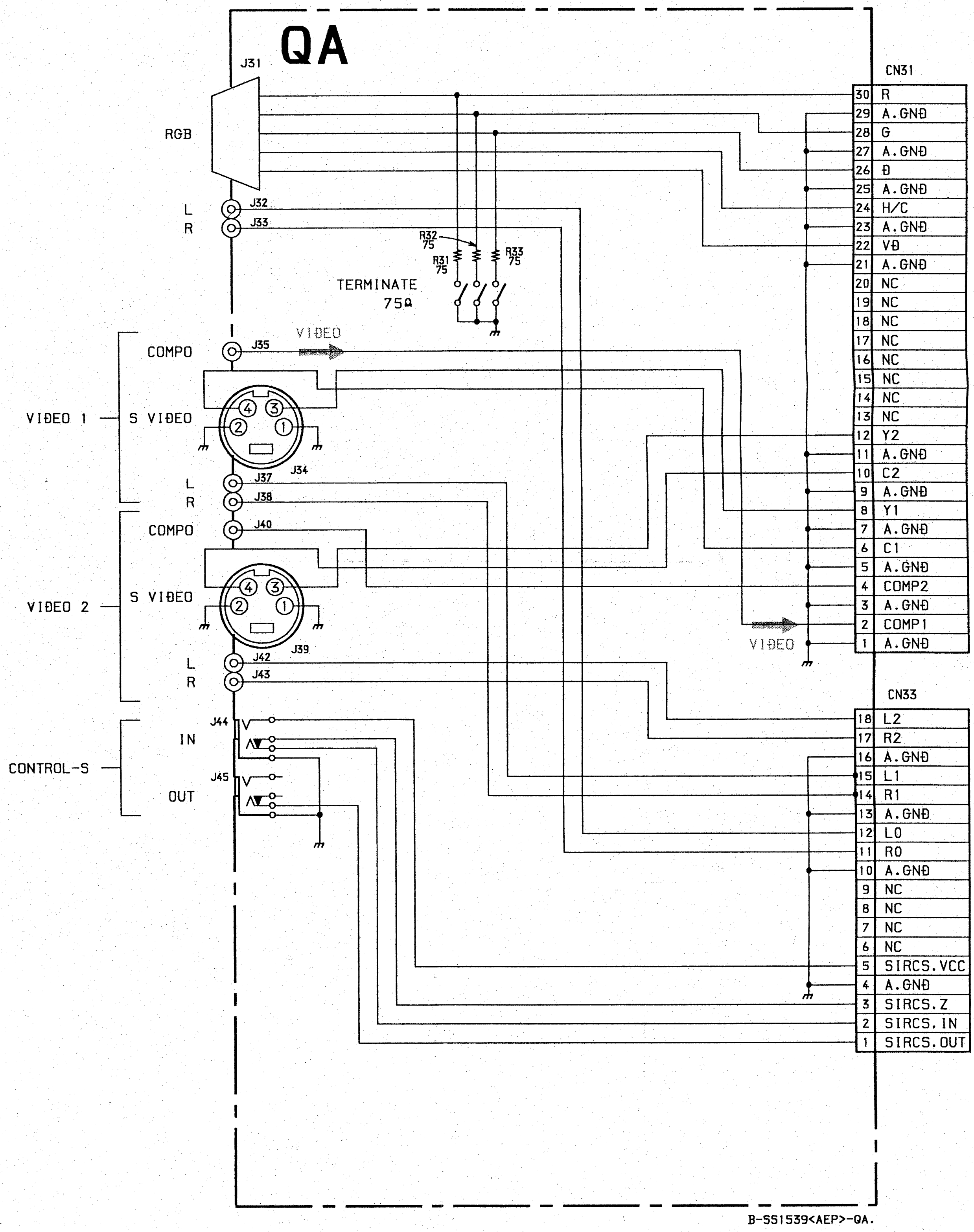

QA
J31
RGB
L
R
J32
J33
R32 75
R31 75
R33 75
TERMINATE
75Ω
VIDEO
COMPO
J35
VIDEO 1
S VIDEO
④ ③
② ①
J34
L
R
J37
J38
COMPO
J40
VIDEO 2
S VIDEO
④ ③
② ①
J39
L
R
J42
J43
CONTROL-S
IN
OUT
J44
J45
VIDEO
CN31
30 R
29 A.GND
28 G
27 A.GND
26 B
25 A.GND
24 H/C
23 A.GND
22 VD
21 A.GND
20 NC
19 NC
18 NC
17 NC
16 NC
15 NC
14 NC
13 NC
12 Y2
11 A.GND
10 C2
9 A.GND
8 Y1
7 A.GND
6 C1
5 A.GND
4 COMP2
3 A.GND
2 COMP1
1 A.GND
TO QB BOARD
CN101
CN33
18 L2
17 R2
16 A.GND
15 L1
14 R1
13 A.GND
12 L0
11 R0
10 A.GND
9 NC
8 NC
7 NC
6 NC
5 SIRCS.VCC
4 A.GND
3 SIRCS.Z
2 SIRCS.IN
1 SIRCS.OUT
TO QB BOARD
CN103
B-SS1539<AEP>-QA.

C (2/2) BOARD

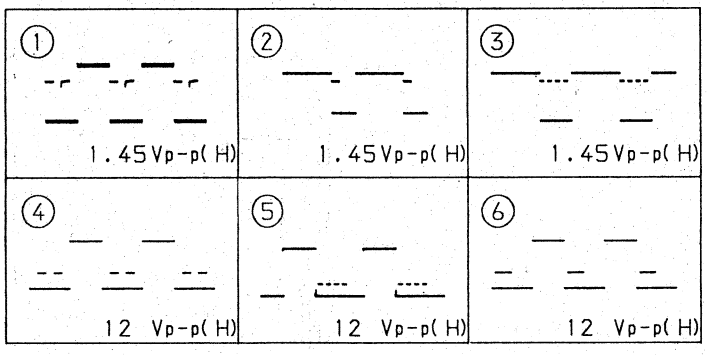


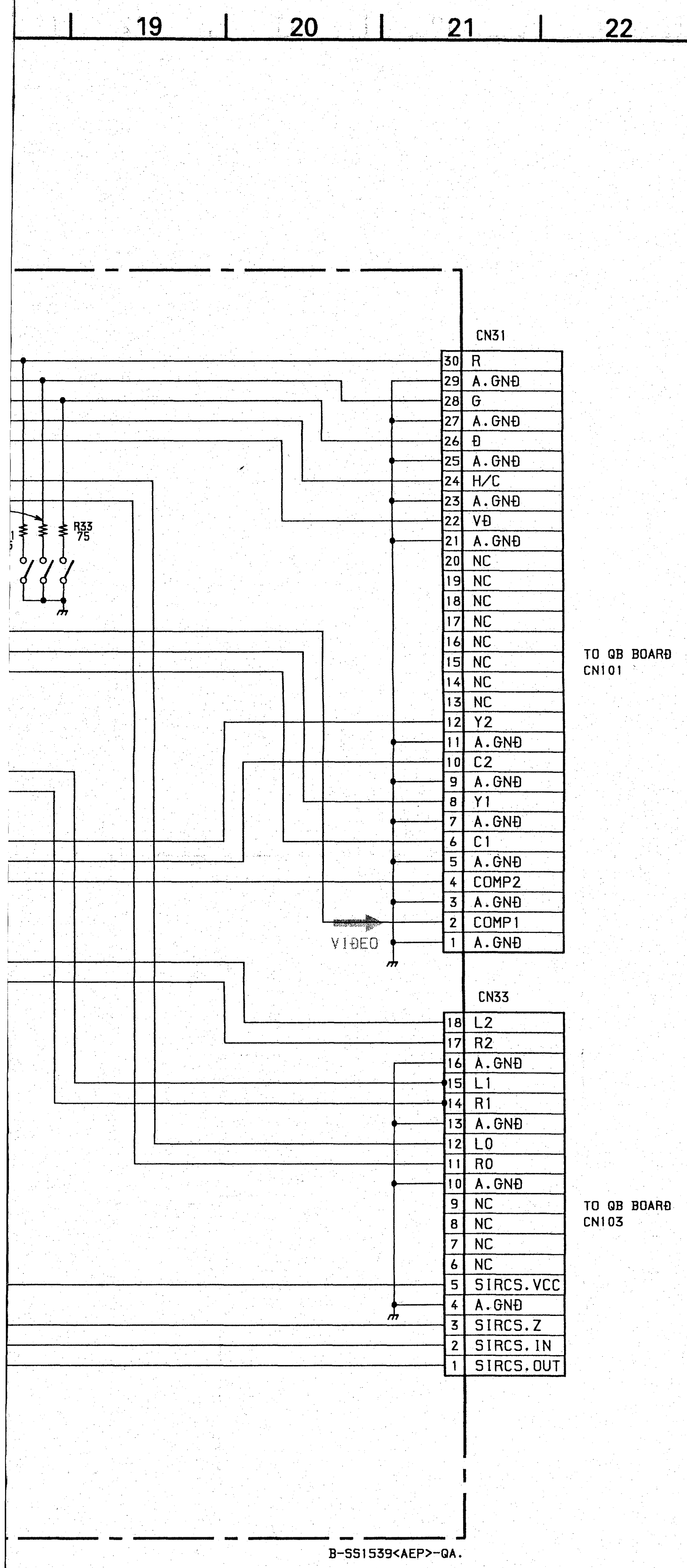

CN309
8P
WHT-L
:S-MICRO
1 R
2 A.GND
3 G
4 A.GND
5 B
6 A.GND
7 AC PULSE
8 D.GND
TO BM BOARD
CN4
AC PULSE
R
G
B
① ② ③
CN310
2P
BLK
:S-MICRO
1 D.GND
2 D.GND
TO BM BOARD
CN19
1, 2 PIN
F_JLSE
TOR
B-SS1583<AEP>-C..-P2

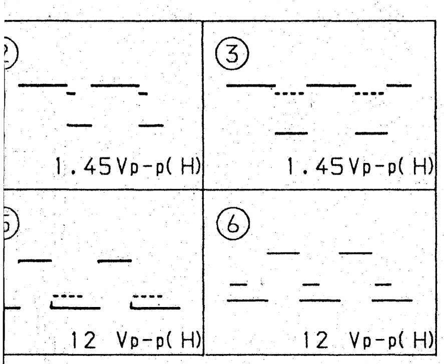
BOARD CHANGE


QA
J31
RGB
L
R
J32
J33
R32 75
R31 75
R33 75
TERMINATE
75Ω
VIDEO
COMPO
J35
VIDEO 1
S VIDEO
J34
J37
J38
COMPO
J40
VIDEO 2
S VIDEO
J39
J42
J43
CONTROL-S
IN
OUT
J44
J45
CN31
30 R
29 A.GND
28 G
27 A.GND
26 D
25 A.GND
24 H/C
23 A.GND
22 VD
21 A.GND
20 NC
19 NC
18 NC
17 NC
16 NC
15 NC
14 NC
13 NC
12 Y2
11 A.GND
10 C2
9 A.GND
8 Y1
7 A.GND
6 C1
5 A.GND
4 COMP2
3 A.GND
2 COMP1
1 A.GND
VIDEO
CN33
18 L2
17 R2
16 A.GND
15 L1
14 R1
13 A.GND
12 L0
11 R0
10 A.GND
9 NC
8 NC
7 NC
6 NC
5 SIRCS.VCC
4 A.GND
3 SIRCS.Z
2 SIRCS.IN
1 SIRCS.OUT
B-SS1539<AEP>-QA.

C (2/2) BOARD


①
1.45Vp-p(H)
②
1.45Vp-p(H)
③
1.45Vp-p(H)
④
12 Vp-p(H)
⑤
12 Vp-p(H)
⑥
12 Vp-p(H)


19
20
21
22
23
R33
75
CN31
30 R
29 A.GND
28 G
27 A.GND
26 D
25 A.GND
24 H/C
23 A.GND
22 VD
21 A.GND
20 NC
19 NC
18 NC
17 NC
16 NC
15 NC
14 NC
13 NC
12 Y2
11 A.GND
10 C2
9 A.GND
8 Y1
7 A.GND
6 C1
5 A.GND
4 COMP2
3 A.GND
2 COMP1
1 A.GND
VIDEO
TO QB BOARD
CN101
CN33
18 L2
17 R2
16 A.GND
15 L1
14 R1
13 A.GND
12 L0
11 R0
10 A.GND
9 NC
8 NC
7 NC
6 NC
5 SIRCS.VCC
4 A.GND
3 SIRCS.Z
2 SIRCS.IN
1 SIRCS.OUT
TO QB BOARD
CN103
B-SS1539<AEP>-QA.


1.45Vp-p(H)
③
1.45Vp-p(H)
12 Vp-p(H)
⑥
12 Vp-p(H)

C [TIMING PULSE GEN.]

C BOARD
(COMPONENT SIDE)

IC	
IC303	F-1
IC305	F-3
IC312	F-1
IC317	C-3
IC319	B-2
IC320	B-3
IC322	B-4
IC323	C-3
IC324	C-2
IC325	A-5

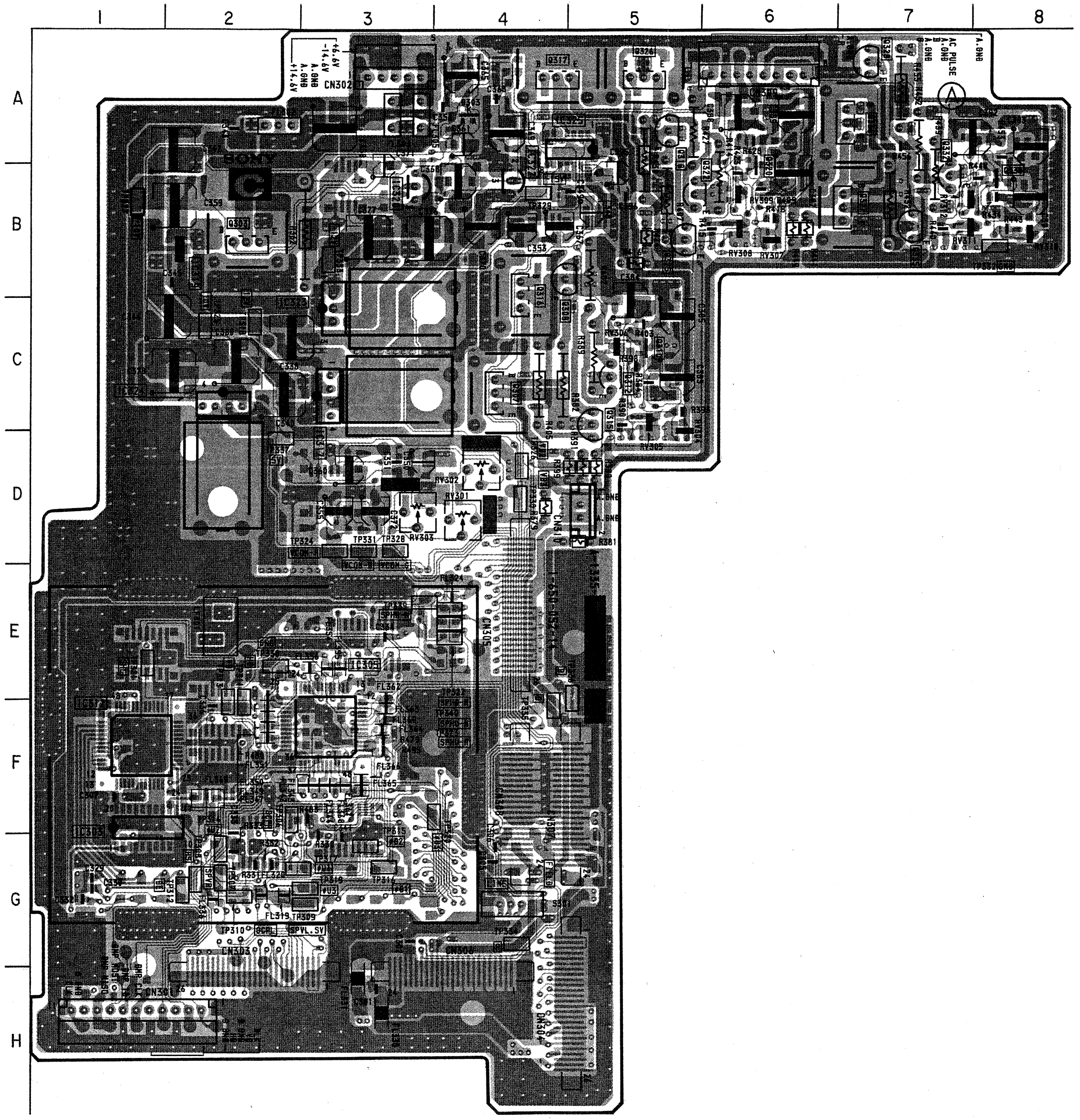
TRANSISTOR	
Q303	B-2
Q307	C-4
Q308	B-5
Q310	C-5
Q312	C-5
Q315	C-5
Q316	C-4
Q317	A-5
Q318	A-5
Q320	B-6
Q322	B-6
Q325	B-5
Q326	A-5
Q327	B-7
Q328	A-7
Q330	B-8
Q332	A-8
Q335	B-7
Q336	A-7

DIODE	
D303	A-4

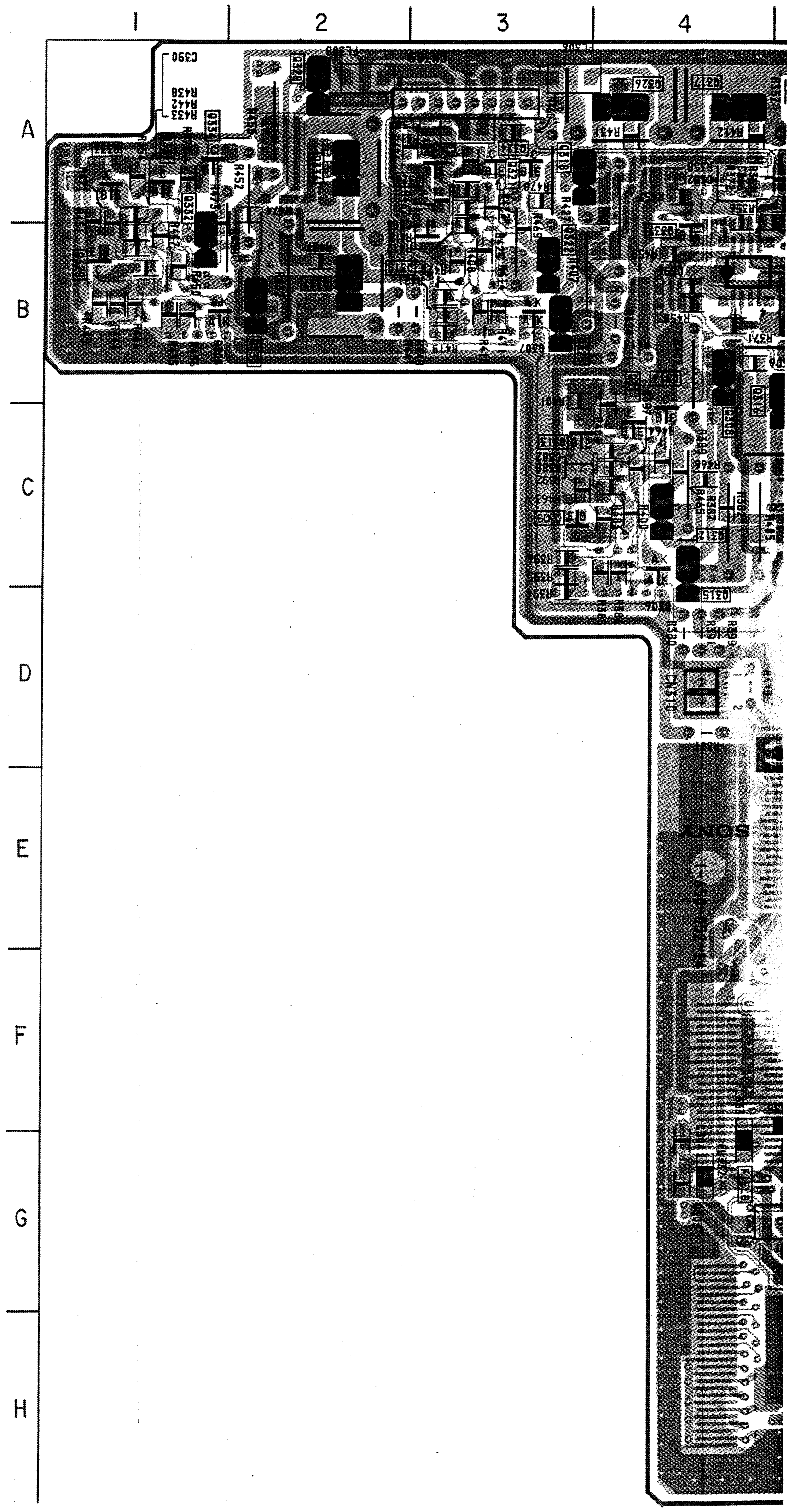
VARIABLE RESISTOR	
RV301	D-4
RV302	D-4
RV303	D-3

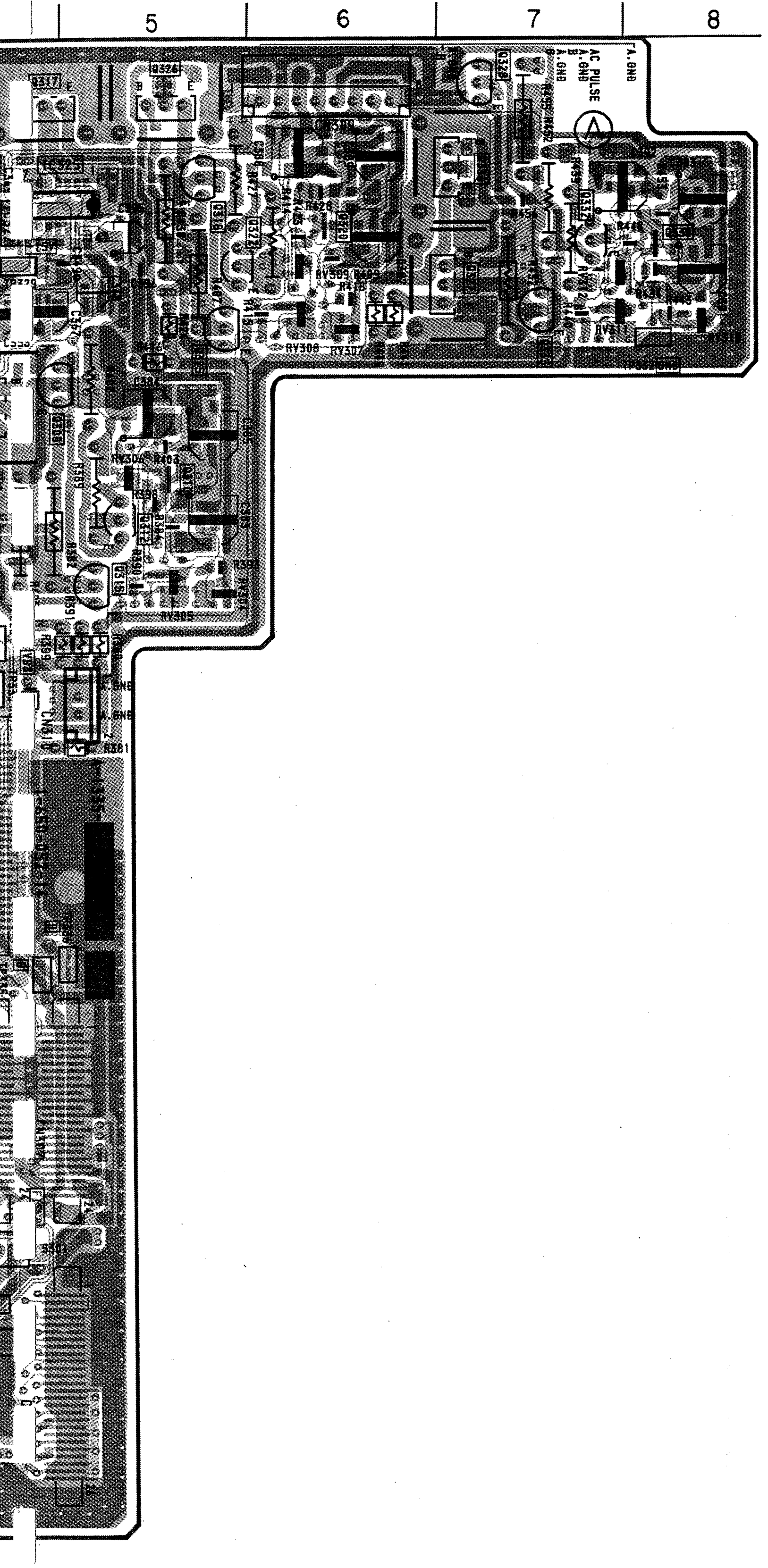
TEST POINT	
TP306	F-2
TP307	E-2
TP308	F-2
TP309	E-3
TP310	G-2
TP311	F-2
TP312	F-2
TP313	F-2
TP314	E-4
TP315	F-3
TP316	G-3
TP317	G-3
TP318	C-2
TP319	G-3
TP320	G-3
TP321	E-2
TP322	E-4
TP323	E-4
TP324	D-3
TP325	C-2
TP326	D-4
TP327	B-1
TP328	D-3
TP329	B-4
TP330	D-4
TP331	D-3
TP332	B-8
TP333	B-3
TP334	G-4
TP335	F-4
TP336	F-5
TP337	D-2
TP338	E-2
TP339	D-4
TP340	E-4

– C BOARD – **<Component Side>**

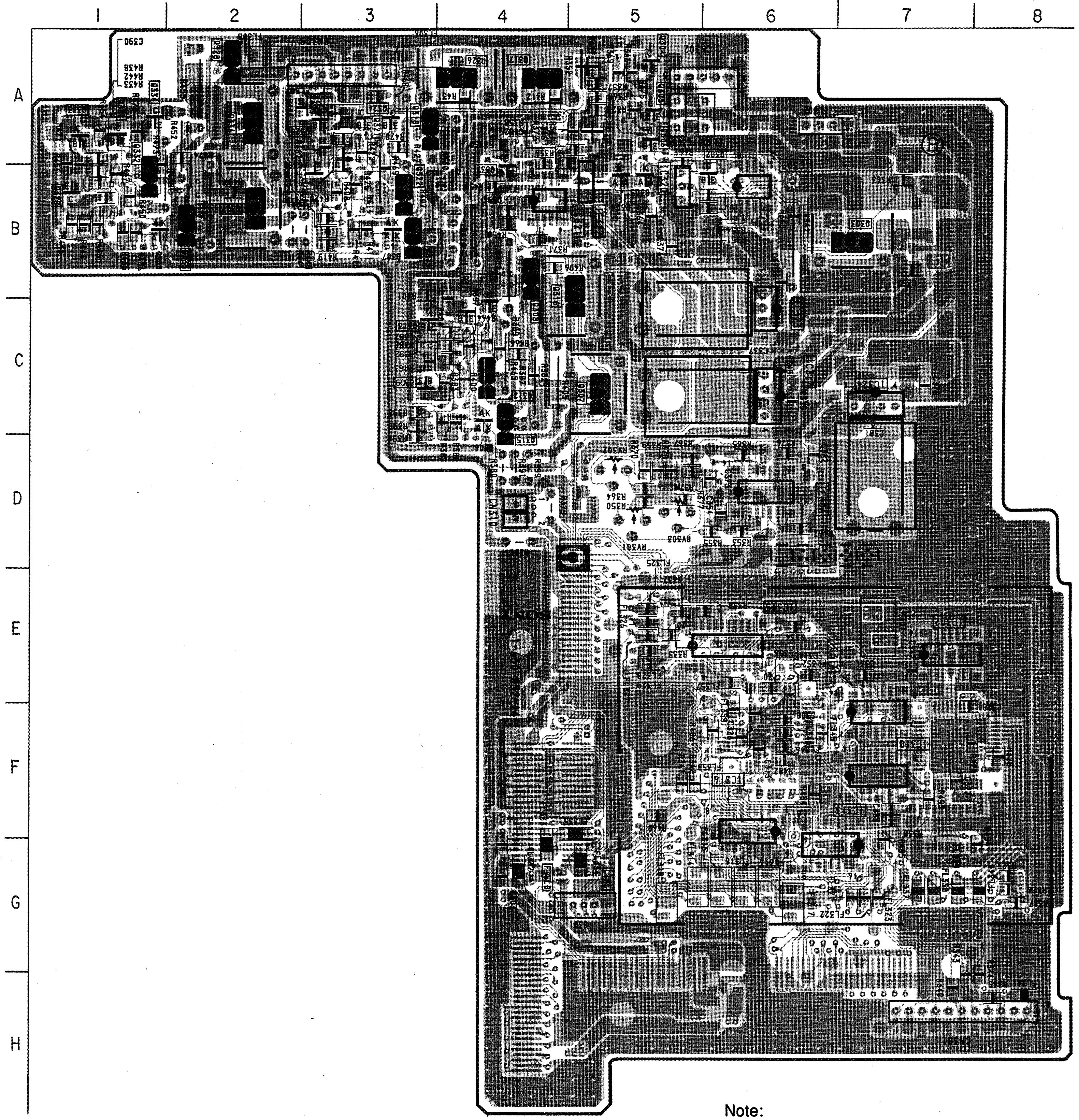


<Conductor Side>





<Conductor Side>



Note:

- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear.

**C BOARD
(CONDUCTOR SIDE)**

IC	
IC302	E-7
IC306	D-6
IC309	B-6
IC310	G-7
IC313	F-6
IC314	F-7
IC315	E-6
IC316	G-6
IC317	C-6
IC320	B-5
IC321	B-4
IC322	B-5
IC323	C-6
IC324	C-7

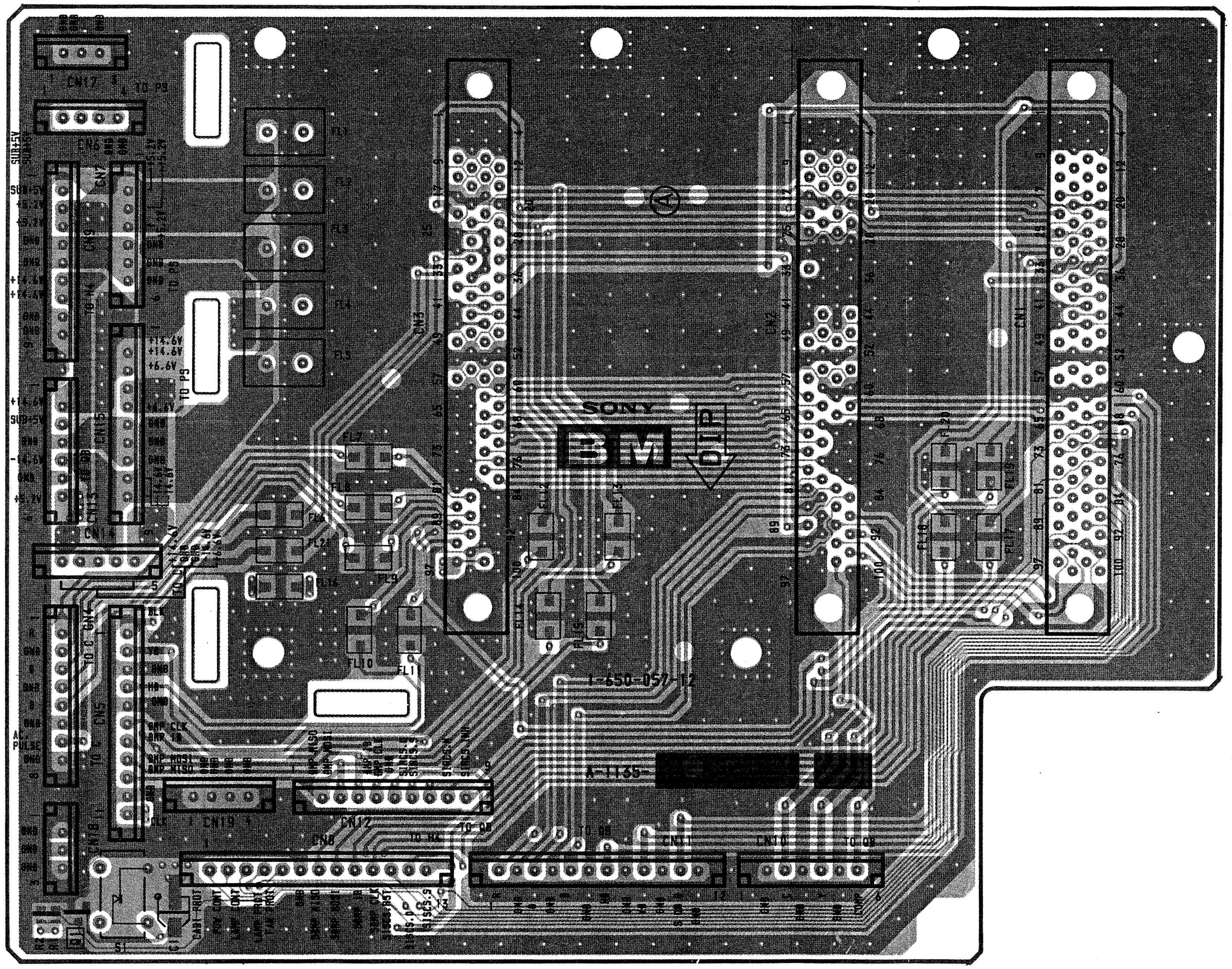
TRANSISTOR	
Q302	B-6
Q303	B-7
Q304	A-5
Q305	A-5
Q306	A-5
Q307	C-5
Q308	B-4
Q309	C-3
Q311	C-4
Q312	C-4
Q313	C-3
Q314	C-4
Q315	C-4
Q316	C-5
Q317	A-4
Q318	A-3
Q319	B-3
Q321	A-3
Q322	B-3
Q323	A-3
Q324	A-3
Q325	B-3
Q326	A-4
Q327	B-2
Q328	A-2
Q329	B-1
Q331	A-1
Q332	B-1
Q333	A-1
Q334	A-1
Q335	B-2
Q336	A-2
Q337	B-4

DIODE	
D304	B-5
D305	B-5
D306	C-4
D307	B-3
D308	B-1

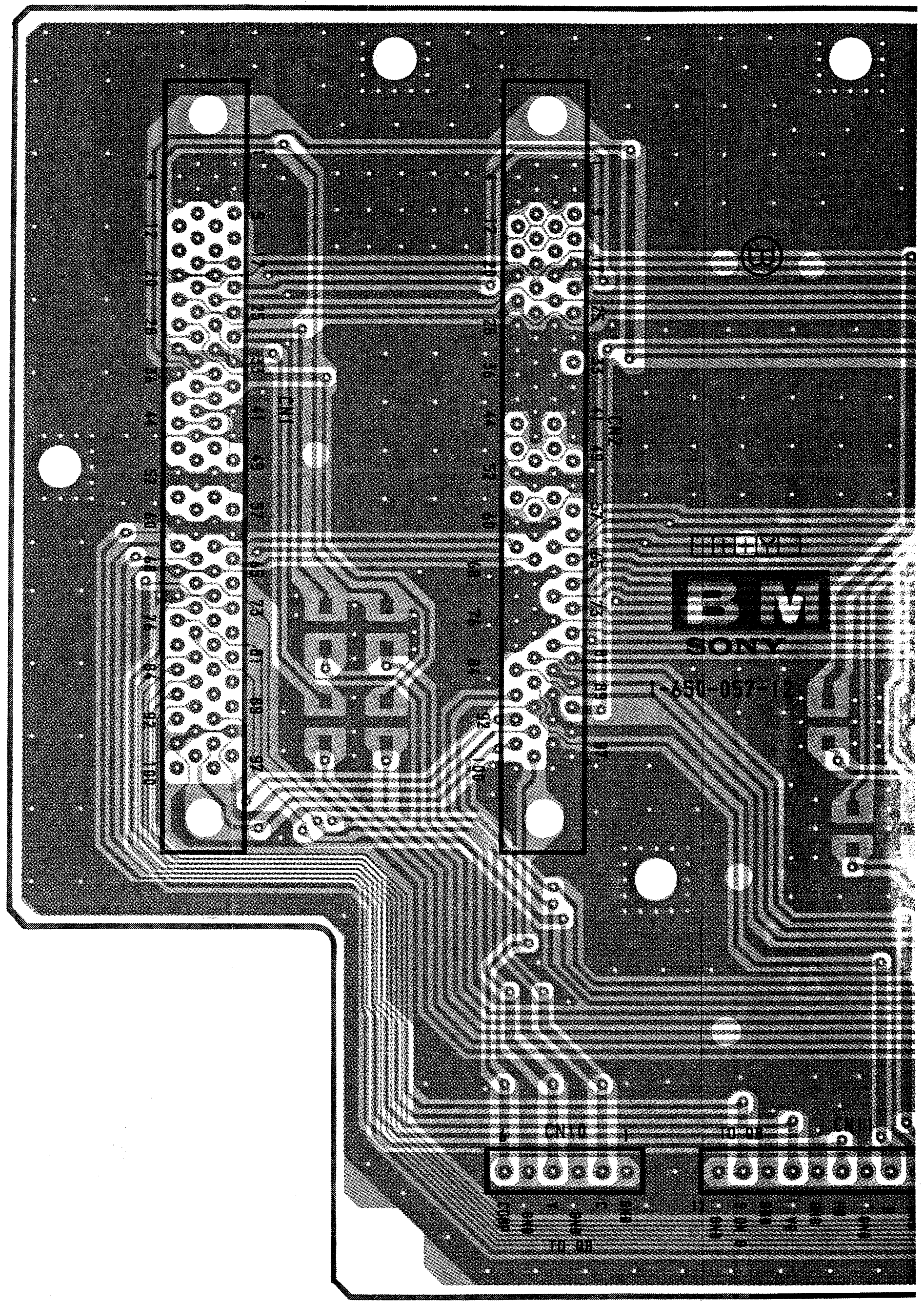
VARIABLE RESISTOR	
RV301	D-5
RV302	D-5
RV303	D-5

BM [MOTHER BOARD]

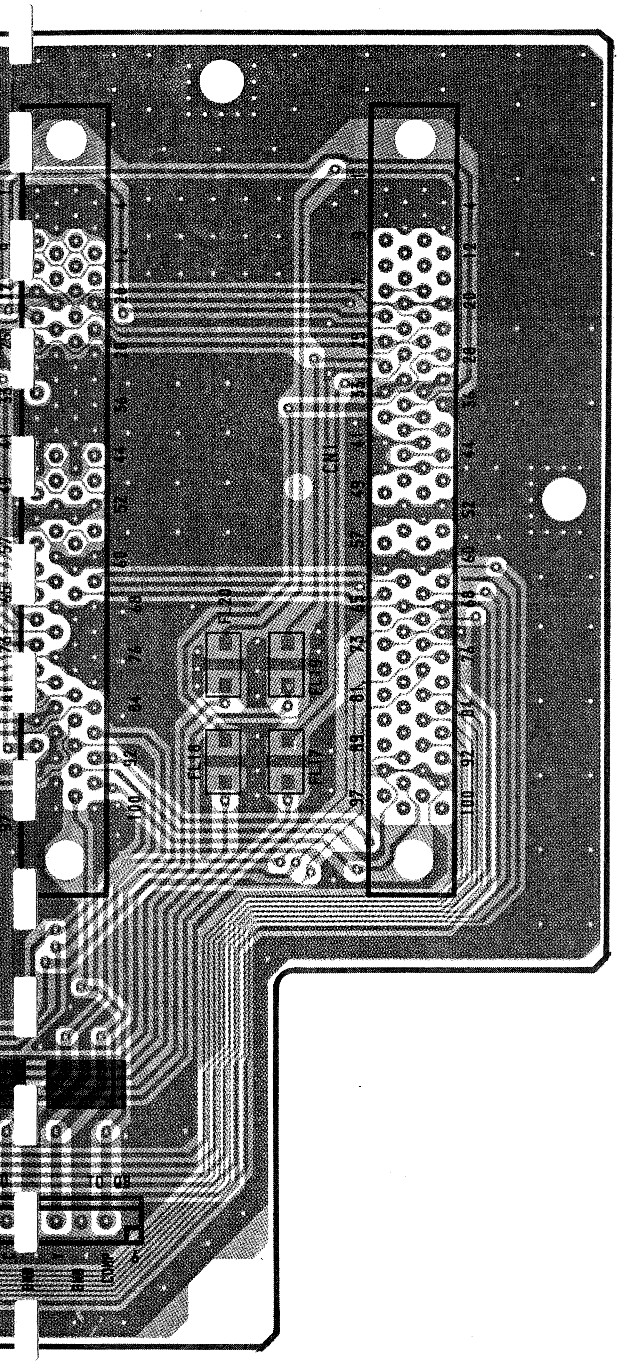
– BM BOARD – **<Component Side>**

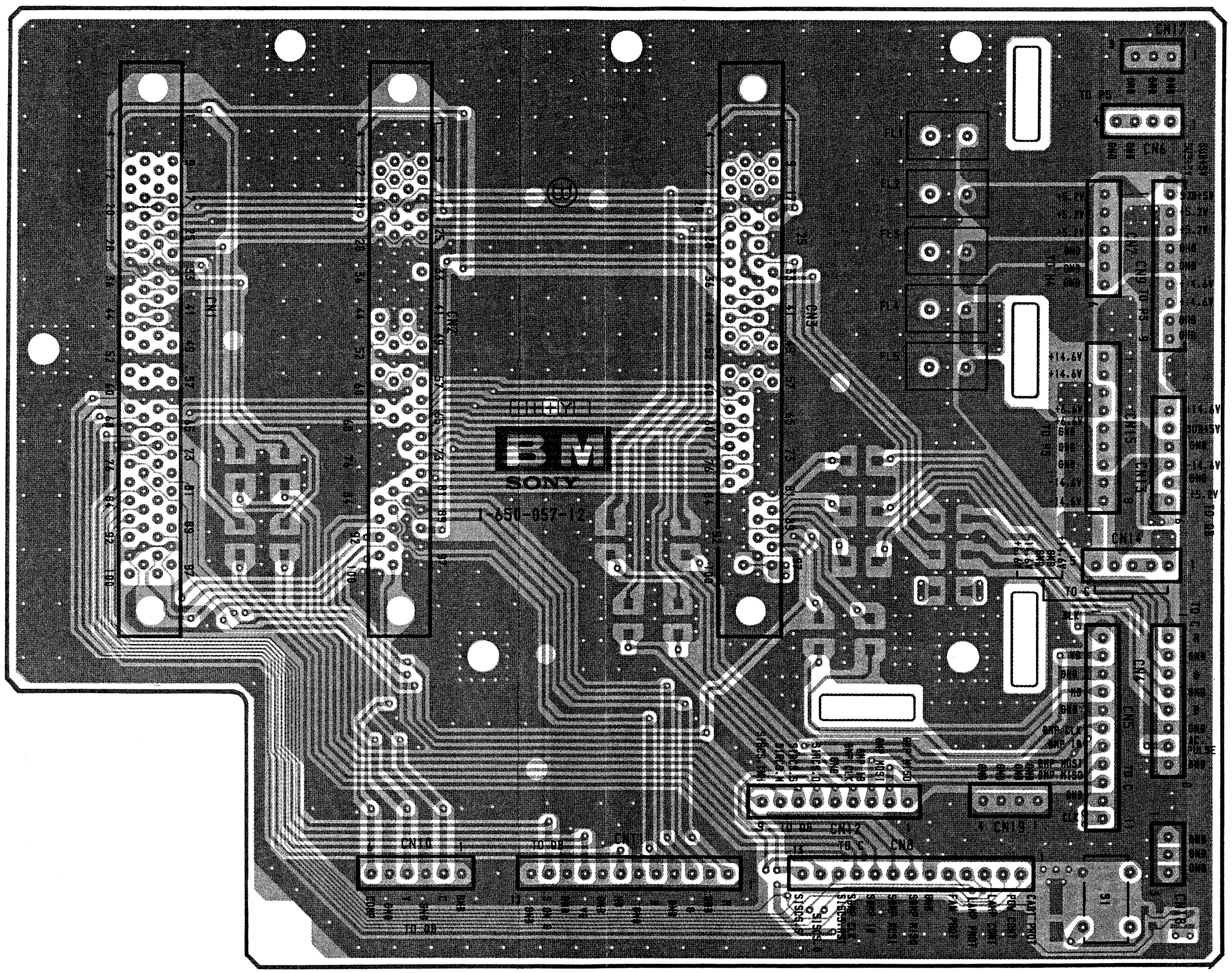

CN17
TO P9
CN6
CN7
CN16
CN15
CN13
CN14
CN4
CN5
CN18
CN19
CN12
CN8
CN11
CN10
TO BB
CN3
CN2
CN1
FL1
FL2
FL3
FL4
FL5
FL7
FL9
FL10
FL11
SONY
BM
DIP
A
1-650-057-12
A-1135-
S1
SUB+5V
+14.6V
-14.6V
+6.6V
GND

<Conductor Side>

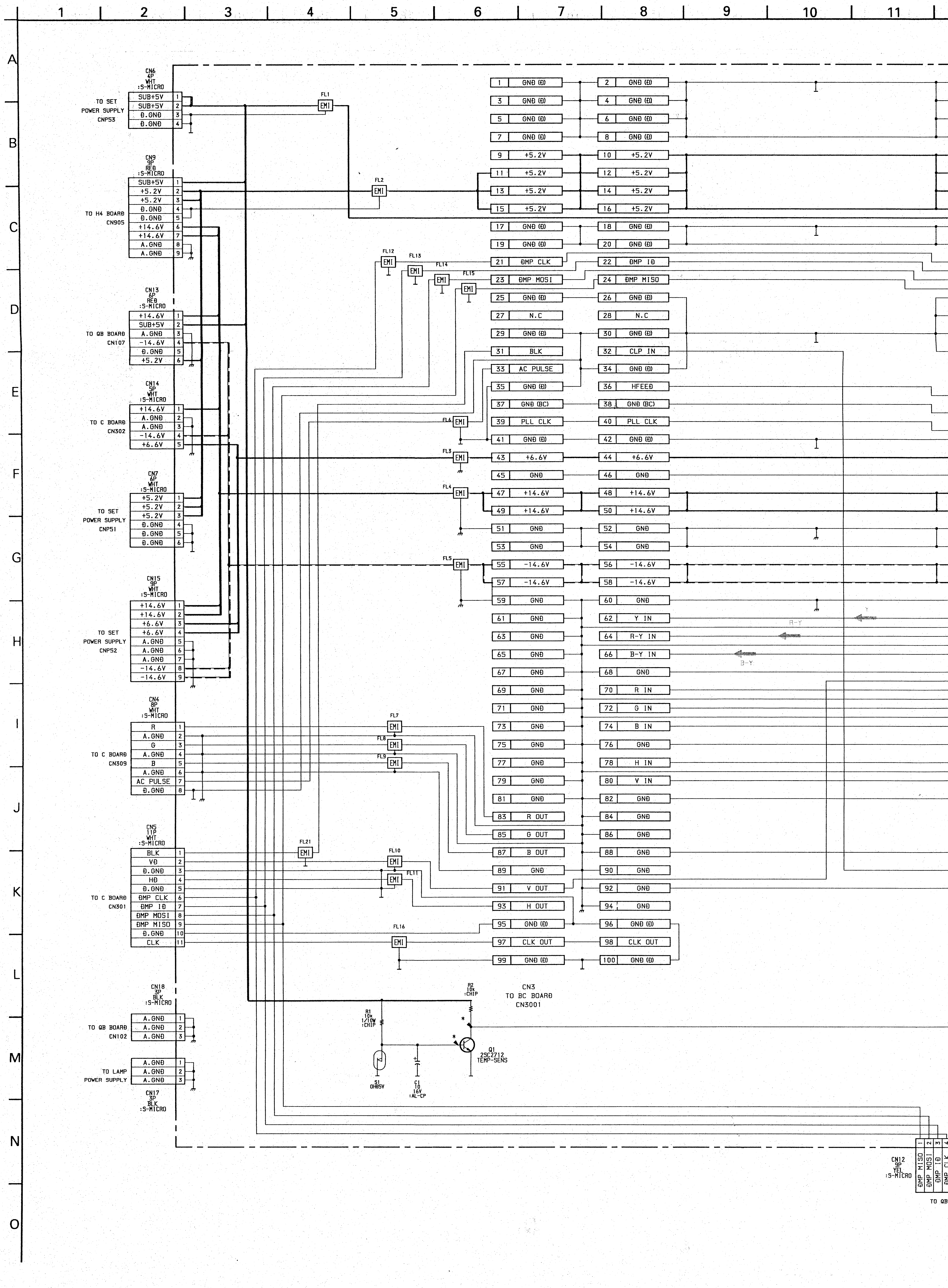

B
BM
SONY
1-650-057-12
CN10
TO BB

<Conductor Side>


CN1
FL16
FL17
FL18
FL19
FL20
TO QB


CN1
CN2
CN3
FL1
FL2
FL3
FL4
FL5
BM
SONY
1-650-057-12
CN4
CN5
CN6
CN7
CN8
CN9
CN10
CN11
CN12
CN13
CN14
CN15
CN16
CN17
S1
TO QB
TO C
TO PS
+14.6V
GND

Note:
- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear.


1
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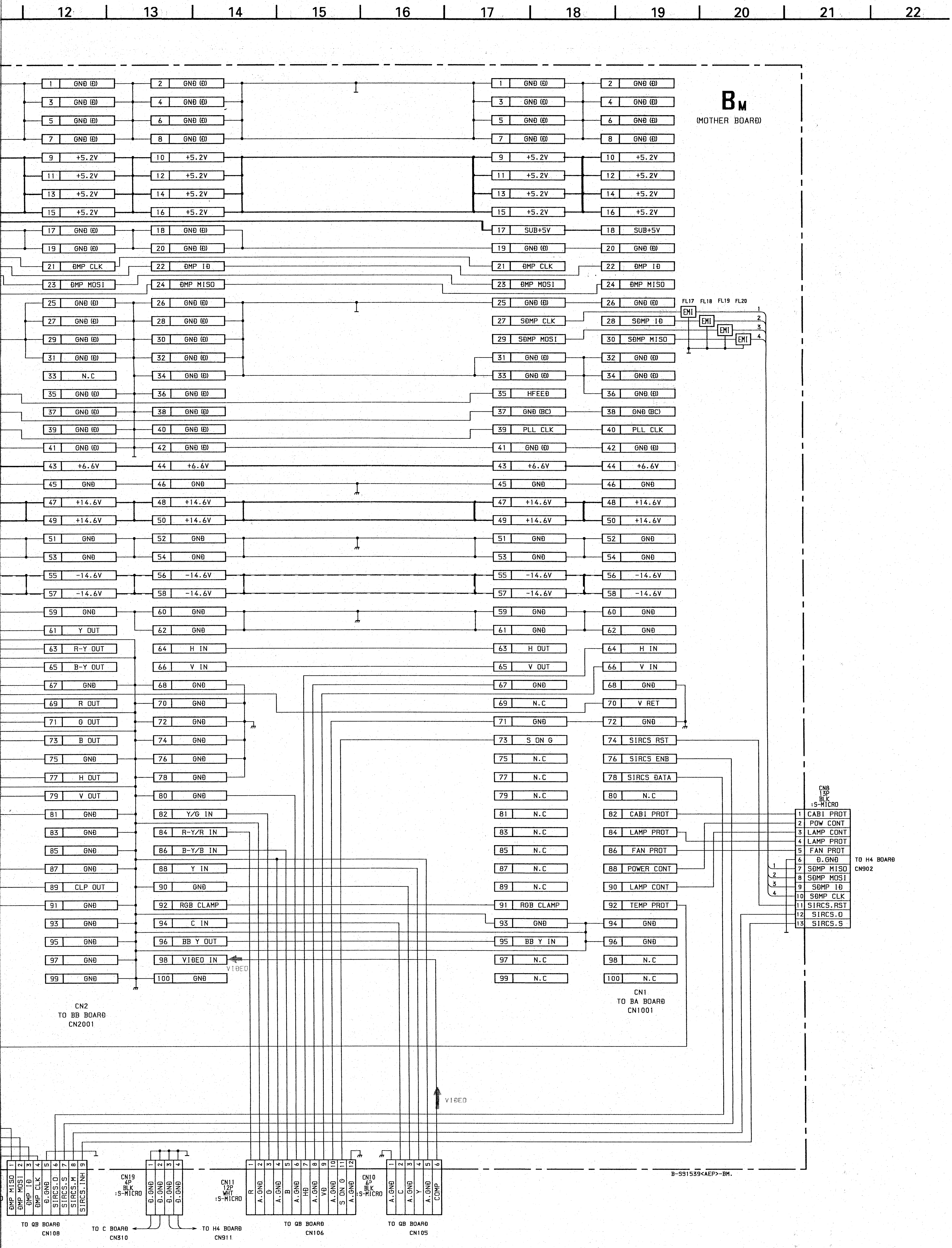
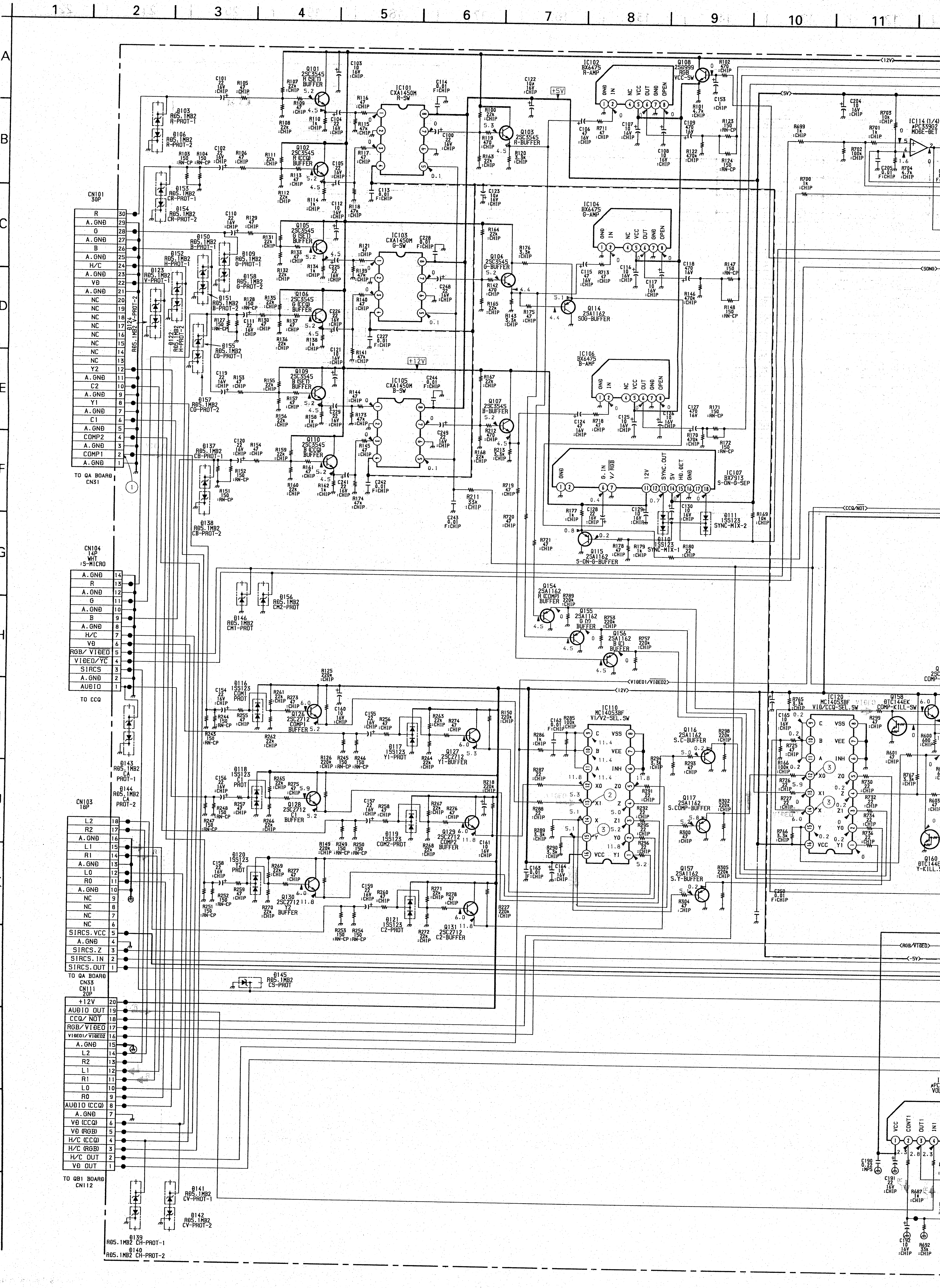
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
CN6 4P WHT :S-MICRO
TO SET POWER SUPPLY CNP53
1 SUB+5V
2 SUB+5V
3 D.GND
4 D.GND
CN9 9P RED :S-MICRO
TO H4 BOARD CN905
1 SUB+5V
2 +5.2V
3 +5.2V
4 D.GND
5 D.GND
6 +14.6V
7 +14.6V
8 A.GND
9 A.GND
CN13 6P RED :S-MICRO
TO QB BOARD CN107
1 +14.6V
2 SUB+5V
3 A.GND
4 -14.6V
5 D.GND
6 +5.2V
CN14 5P WHT :S-MICRO
TO C BOARD CN302
1 +14.6V
2 A.GND
3 A.GND
4 -14.6V
5 +6.6V
CN7 6P WHT :S-MICRO
TO SET POWER SUPPLY CNP51
1 +5.2V
2 +5.2V
3 +5.2V
4 D.GND
5 D.GND
6 D.GND
CN15 9P WHT :S-MICRO
TO SET POWER SUPPLY CNP52
1 +14.6V
2 +14.6V
3 +6.6V
4 +6.6V
5 A.GND
6 A.GND
7 A.GND
8 -14.6V
9 -14.6V
CN4 8P WHT :S-MICRO
TO C BOARD CN309
1 R
2 A.GND
3 G
4 A.GND
5 B
6 A.GND
7 AC PULSE
8 D.GND
CN5 11P WHT :S-MICRO
TO C BOARD CN301
1 BLK
2 VD
3 D.GND
4 HD
5 D.GND
6 DMP CLK
7 DMP ID
8 DMP MOSI
9 DMP MISO
10 D.GND
11 CLK
CN18 3P BLK :S-MICRO
TO QB BOARD CN102
1 A.GND
2 A.GND
3 A.GND
TO LAMP POWER SUPPLY
1 A.GND
2 A.GND
3 A.GND
CN17 3P BLK :S-MICRO
FL1 EMI
FL2 EMI
FL3 EMI
FL4 EMI
FL5 EMI
FL6 EMI
FL7 EMI
FL8 EMI
FL9 EMI
FL10 EMI
FL11 EMI
FL12 EMI
FL13 EMI
FL14 EMI
FL15 EMI
FL16 EMI
FL21 EMI
1 GND (D)
2 GND (D)
3 GND (D)
4 GND (D)
5 GND (D)
6 GND (D)
7 GND (D)
8 GND (D)
9 +5.2V
10 +5.2V
11 +5.2V
12 +5.2V
13 +5.2V
14 +5.2V
15 +5.2V
16 +5.2V
17 GND (D)
18 GND (D)
19 GND (D)
20 GND (D)
21 DMP CLK
22 DMP ID
23 DMP MOSI
24 DMP MISO
25 GND (D)
26 GND (D)
27 N.C
28 N.C
29 GND (D)
30 GND (D)
31 BLK
32 CLP IN
33 AC PULSE
34 GND (D)
35 GND (D)
36 HFEED
37 GND (BC)
38 GND (BC)
39 PLL CLK
40 PLL CLK
41 GND (D)
42 GND (D)
43 +6.6V
44 +6.6V
45 GND
46 GND
47 +14.6V
48 +14.6V
49 +14.6V
50 +14.6V
51 GND
52 GND
53 GND
54 GND
55 -14.6V
56 -14.6V
57 -14.6V
58 -14.6V
59 GND
60 GND
61 GND
62 Y IN
63 GND
64 R-Y IN
65 GND
66 B-Y IN
67 GND
68 GND
69 GND
70 R IN
71 GND
72 G IN
73 GND
74 B IN
75 GND
76 GND
77 GND
78 H IN
79 GND
80 V IN
81 GND
82 GND
83 R OUT
84 GND
85 G OUT
86 GND
87 B OUT
88 GND
89 GND
90 GND
91 V OUT
92 GND
93 H OUT
94 GND
95 GND (D)
96 GND (D)
97 CLK OUT
98 CLK OUT
99 GND (D)
100 GND (D)
R-Y
B-Y
CN3
TO BC BOARD
CN3001
R2 10k :CHIP
R1 10k 1/10W :CHIP
*
*
Q1 2SC2712 TEMP-SENS
S1 OH85V
C1 10 16V :AL-CP
CN12 9P YEL :S-MICRO
1 DMP MISO
2 DMP MOSI
3 DMP ID
4 DMP CLK
TO QB


12
13
14
15
16
17
18
19
20
21
22
BM
(MOTHER BOARD)
1 GND (D)
3 GND (D)
5 GND (D)
7 GND (D)
9 +5.2V
11 +5.2V
13 +5.2V
15 +5.2V
17 GND (D)
19 GND (D)
21 DMP CLK
23 DMP MOSI
25 GND (D)
27 GND (D)
29 GND (D)
31 GND (D)
33 N.C
35 GND (D)
37 GND (D)
39 GND (D)
41 GND (D)
43 +6.6V
45 GND
47 +14.6V
49 +14.6V
51 GND
53 GND
55 -14.6V
57 -14.6V
59 GND
61 Y OUT
63 R-Y OUT
65 B-Y OUT
67 GND
69 R OUT
71 G OUT
73 B OUT
75 GND
77 H OUT
79 V OUT
81 GND
83 GND
85 GND
87 GND
89 CLP OUT
91 GND
93 GND
95 GND
97 GND
99 GND
2 GND (D)
4 GND (D)
6 GND (D)
8 GND (D)
10 +5.2V
12 +5.2V
14 +5.2V
16 +5.2V
18 GND (D)
20 GND (D)
22 DMP ID
24 DMP MISO
26 GND (D)
28 GND (D)
30 GND (D)
32 GND (D)
34 GND (D)
36 GND (D)
38 GND (D)
40 GND (D)
42 GND (D)
44 +6.6V
46 GND
48 +14.6V
50 +14.6V
52 GND
54 GND
56 -14.6V
58 -14.6V
60 GND
62 GND
64 H IN
66 V IN
68 GND
70 GND
72 GND
74 GND
76 GND
78 GND
80 GND
82 Y/G IN
84 R-Y/R IN
86 B-Y/B IN
88 Y IN
90 GND
92 RGB CLAMP
94 C IN
96 BB Y OUT
98 VIDEO IN
100 GND
VIDEO
CN2
TO BB BOARD
CN2001
1 GND (D)
3 GND (D)
5 GND (D)
7 GND (D)
9 +5.2V
11 +5.2V
13 +5.2V
15 +5.2V
17 SUB+5V
19 GND (D)
21 DMP CLK
23 DMP MOSI
25 GND (D)
27 SDMP CLK
29 SDMP MOSI
31 GND (D)
33 GND (D)
35 HFEED
37 GND (BC)
39 PLL CLK
41 GND (D)
43 +6.6V
45 GND
47 +14.6V
49 +14.6V
51 GND
53 GND
55 -14.6V
57 -14.6V
59 GND
61 GND
63 H OUT
65 V OUT
67 GND
69 N.C
71 GND
73 S ON G
75 N.C
77 N.C
79 N.C
81 N.C
83 N.C
85 N.C
87 N.C
89 N.C
91 RGB CLAMP
93 GND
95 BB Y IN
97 N.C
99 N.C
2 GND (D)
4 GND (D)
6 GND (D)
8 GND (D)
10 +5.2V
12 +5.2V
14 +5.2V
16 +5.2V
18 SUB+5V
20 GND (D)
22 DMP ID
24 DMP MISO
26 GND (D)
28 SDMP ID
30 SDMP MISO
32 GND (D)
34 GND (D)
36 GND (D)
38 GND (BC)
40 PLL CLK
42 GND (D)
44 +6.6V
46 GND
48 +14.6V
50 +14.6V
52 GND
54 GND
56 -14.6V
58 -14.6V
60 GND
62 GND
64 H IN
66 V IN
68 GND
70 V RET
72 GND
74 SIRCS RST
76 SIRCS ENB
78 SIRCS DATA
80 N.C
82 CABI PROT
84 LAMP PROT
86 FAN PROT
88 POWER CONT
90 LAMP CONT
92 TEMP PROT
94 GND
96 GND
98 N.C
100 N.C
CN1
TO BA BOARD
CN1001
FL17
FL18
FL19
FL20
EMI
EMI
EMI
EMI
CN8
13P
BLK
:S-MICRO
1 CABI PROT
2 POW CONT
3 LAMP CONT
4 LAMP PROT
5 FAN PROT
6 D.GND
7 SDMP MISO
8 SDMP MOSI
9 SDMP ID
10 SDMP CLK
11 SIRCS.RST
12 SIRCS.O
13 SIRCS.S
TO H4 BOARD
CN902
VIDEO
1 DMP MISO
2 DMP MOSI
3 DMP ID
4 DMP CLK
5 D.GND
6 SIRCS.O
7 SIRCS.S
8 SIRCS.M
9 SIRCS.INH
TO QB BOARD
CN108
CN19
4P
BLK
:S-MICRO
1 D.GND
2 D.GND
3 D.GND
4 D.GND
TO C BOARD
CN310
TO H4 BOARD
CN911
CN11
12P
WHT
:S-MICRO
1 R
2 A.GND
3 G
4 A.GND
5 B
6 A.GND
7 HD
8 A.GND
9 VD
10 A.GND
11 S ON G
12 A.GND
TO QB BOARD
CN106
CN10
6P
BLK
:S-MICRO
1 A.GND
2 C
3 A.GND
4 Y
5 A.GND
6 COMP
TO QB BOARD
CN105
B-991539<AEP>-BM.


1
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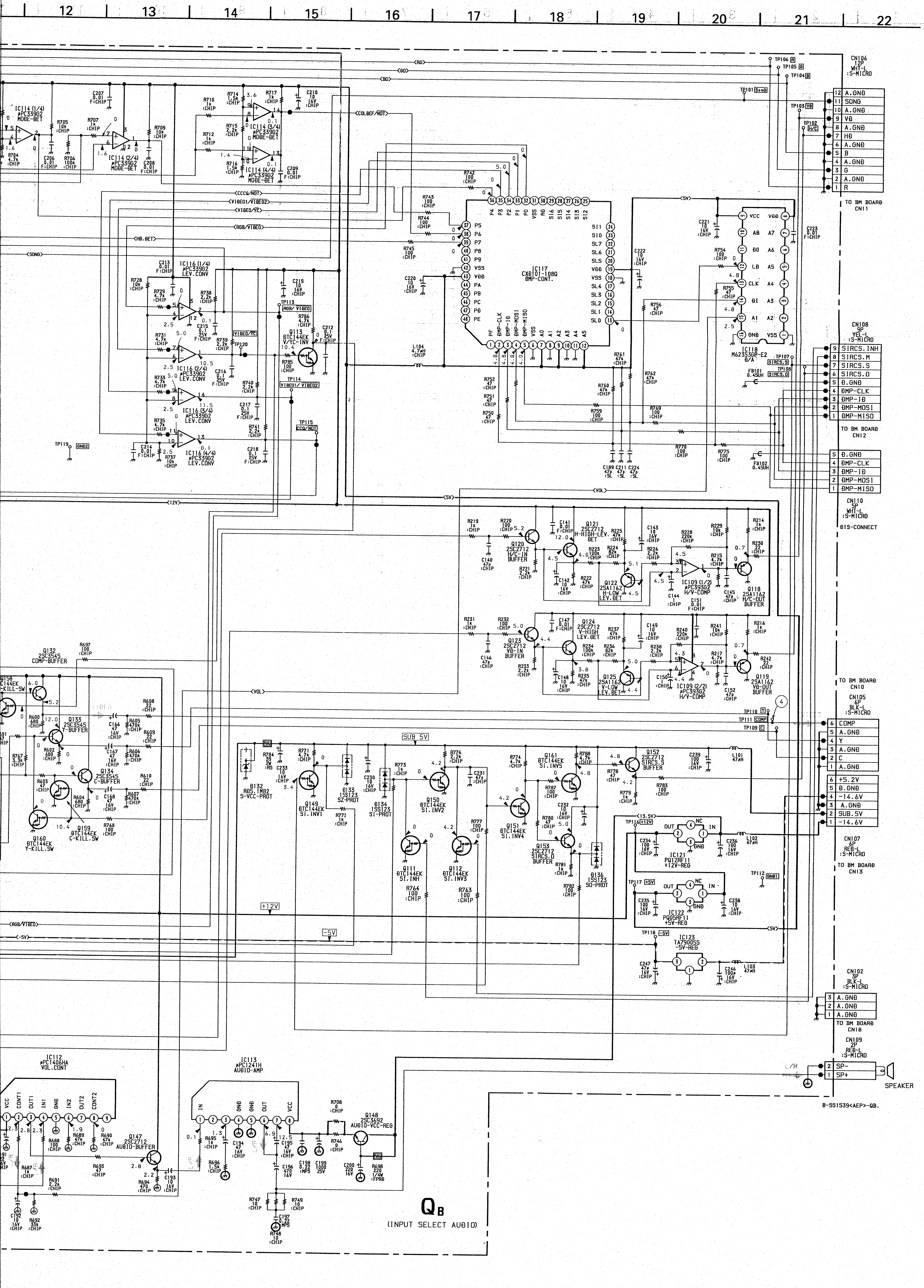
7
8
9
10
11
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
IC101 CXA1450M R-SW
IC102 BX6475 R-AMP
Q108 2SD999 RGB VCC-SW
IC114 (1/4) μPC339G2 MODE-DET
Q101 2SC3545 R (SET) BUFFER
Q102 2SC3545 R (CCQ) BUFFER
Q103 2SC3545 R-BUFFER
IC103 CXA1450M G-SW
IC104 BX6475 G-AMP
Q105 2SC3545 G (SET) BUFFER
Q106 2SC3545 G (CCQ) BUFFER
Q104 2SC3545 G-BUFFER
Q114 2SA1162 SOG-BUFFER
IC105 CXA1450M B-SW
IC106 BX6475 B-AMP
Q109 2SC3545 B (SET) BUFFER
Q110 2SC3545 B (CCQ) BUFFER
Q107 2SC3545 B-BUFFER
IC107 BX7913 S-ON-G-SEP
Q115 2SA1162 S-ON-G-BUFFER
D110 1SS123 SYNC-MIX-1
D111 1SS123 SYNC-MIX-2
Q154 2SA1162 R (COMP) BUFFER
Q155 2SA1162 G (Y) BUFFER
Q156 2SA1162 B (C) BUFFER
CN101 30P
TO QA BOARD CN31
CN104 14P WHT :S-MICRO
TO CCQ
CN103 18P
TO QA BOARD CN33
CN111 20P
TO QB1 BOARD CN112
IC110 MC14053BF V1/V2-SEL.SW
IC120 MC14053BF VID/CCQ-SEL.SW
Q158 DTC144EK COMP-KILL-SW
Q160 DTC144EK Y-KILL-SW
Q116 2SA1162 S.C-BUFFER
Q117 2SA1162 S.COMP-BUFFER
Q157 2SA1162 S.Y-BUFFER
Q126 2SC2712 COMP1 BUFFER
Q127 2SC2712 Y1-BUFFER
Q128 2SC2712 C1 BUFFER
Q129 2SC2712 COMP2 BUFFER
Q130 2SC2712 Y2 BUFFER
Q131 2SC2712 C2-BUFFER
D116 1SS123 COM1 PROT
D117 1SS123 Y1-PROT
D118 1SS123 C1 PROT
D119 1SS123 COM2-PROT
D120 1SS123 Y2 PROT
D121 1SS123 C2-PROT
D145 RD5.1MB2 CS-PROT
D139 RD5.1MB2 CH-PROT-1
D140 RD5.1MB2 CH-PROT-2
D141 RD5.1MB2 CV-PROT-1
D142 RD5.1MB2 CV-PROT-2
<12V>
<5V>
<SONG>
<CCQ/NOT>
<VIDEO1/VIDEO2>
<RGB/VIDEO>
<-5V>


12
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22
IC114 (1/4) μPC33962 MODE-DET
IC114 (2/4) μPC33962 MODE-DET
IC114 (3/4) μPC33962 MODE-DET
IC114 (4/4) μPC33962 MODE-DET
IC116 (1/4) μPC33962 LEV.CONV
IC116 (2/4) μPC33962 LEV.CONV
IC116 (3/4) μPC33962 LEV.CONV
IC116 (4/4) μPC33962 LEV.CONV
Q113 DTC144EK V/YC-INV
IC117 CXD101-108Q DMP-CONT.
IC118 M62353GP-E2 D/A
Q120 2SC2712 H/C-IN BUFFER
Q121 2SC2712 H-HIGH-LEV. DET
Q122 2SA1162 H-LOW LEV.DET
IC109 (1/2) μPC39362 H/V-COMP
Q118 2SA1162 H/C-OUT BUFFER
Q123 2SC2712 VD-IN BUFFER
Q124 2SC2712 V-HIGH LEV.DET
Q125 2SA1162 V-LOW LEV.DET
IC109 (2/2) μPC39362 H/V-COMP
Q119 2SA1162 VD-OUT BUFFER
Q132 2SC3545 COMP-BUFFER
Q133 2SC3545 Y-BUFFER
Q134 2SC3545 C-BUFFER
Q158 DTC144EK
Q159 DTC144EK C-KILL.SW
Q160 DTC144EK Y-KILL.SW
D132 RD5.1MB2 S-VCC-PROT
Q149 DTC144EK SI.INV1
D133 1SS123 SZ-PROT
D134 1SS123 SI-PROT
Q150 DTC144EK SI.INV2
Q111 DTC144EK SI.INH
Q112 DTC144EK SI.INV3
Q151 DTC144EK SI.INV4
Q161 DTC144EK SI.INV5
Q153 2SC2712 SIRCS.O BUFFER
D136 1SS123 SO-PROT
Q152 2SC2712 SIRCS.S BUFFER
IC121 PQ12RF11 +12V-REG
IC122 PQ05RF11 +5V-REG
IC123 TA79005S -5V-REG
IC112 μPC1406HA VOL.CONT
Q147 2SC2712 AUDIO-BUFFER
IC113 μPC1241H AUDIO-AMP
Q148 2SC3692 AUDIO-VCC-REG
CN106 12P WHT-L :S-MICRO
12 A.GND
11 SONG
10 A.GND
9 VD
8 A.GND
7 HD
6 A.GND
5 B
4 A.GND
3 G
2 A.GND
1 R
TO BM BOARD CN11
CN108 9P YEL-L :S-MICRO
9 SIRCS.INH
8 SIRCS.M
7 SIRCS.S
6 SIRCS.O
5 D.GND
4 DMP-CLK
3 DMP-ID
2 DMP-MOSI
1 DMP-MISO
TO BM BOARD CN12
5 D.GND
4 DMP-CLK
3 DMP-ID
2 DMP-MOSI
1 DMP-MISO
CN110 5P WHT-L :S-MICRO
DIS-CONNECT
TO BM BOARD CN10
CN105 6P BLK-L :S-MICRO
6 COMP
5 A.GND
4 Y
3 A.GND
2 C
1 A.GND
6 +5.2V
5 D.GND
4 -14.6V
3 A.GND
2 SUB.5V
1 -14.6V
CN107 6P RED-L :S-MICRO
TO BM BOARD CN13
CN102 3P BLK-L :S-MICRO
3 A.GND
2 A.GND
1 A.GND
TO BM BOARD CN18
CN109 2P RED-L :S-MICRO
2 SP-
1 SP+
SPEAKER
(RD)
(GD)
(BD)
(COLDET/NOT)
(CCCG/NOT)
(VIDEO1/VIDEO2)
(VIDEO/YC)
(RGB/VIDEO)
(HD.DET)
(SONG)
(5V)
(VOL)
(12V)
SUB 5V
+12V
-5V
(13.5V)
(-5V)
TP101 TP102 TP103 TP104 TP105 TP106 TP107 TP108 TP109 TP110 TP111 TP112 TP113 TP114 TP115 TP116 TP117 TP118 TP119 TP120

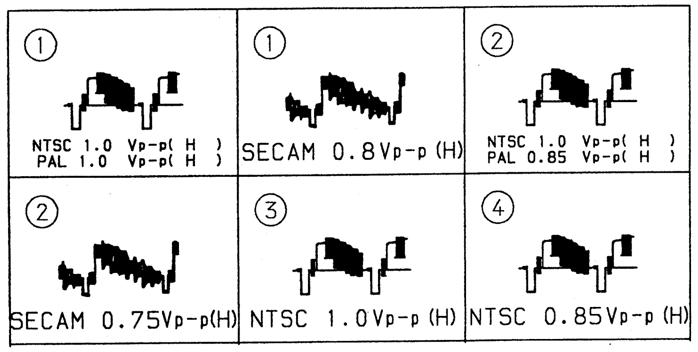
Q_B

(INPUT SELECT AUDIO)

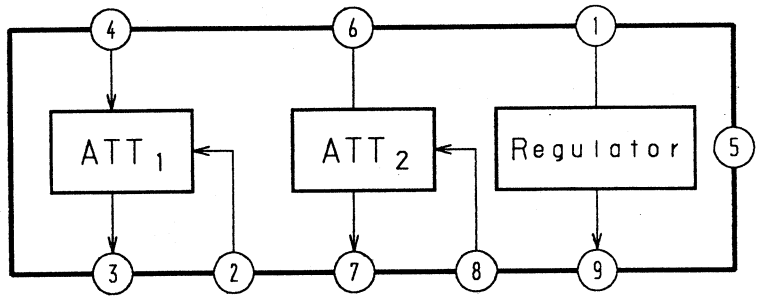
B-SS1539<AEP>-QB.

QB [INPUT SELECT AUDIO]

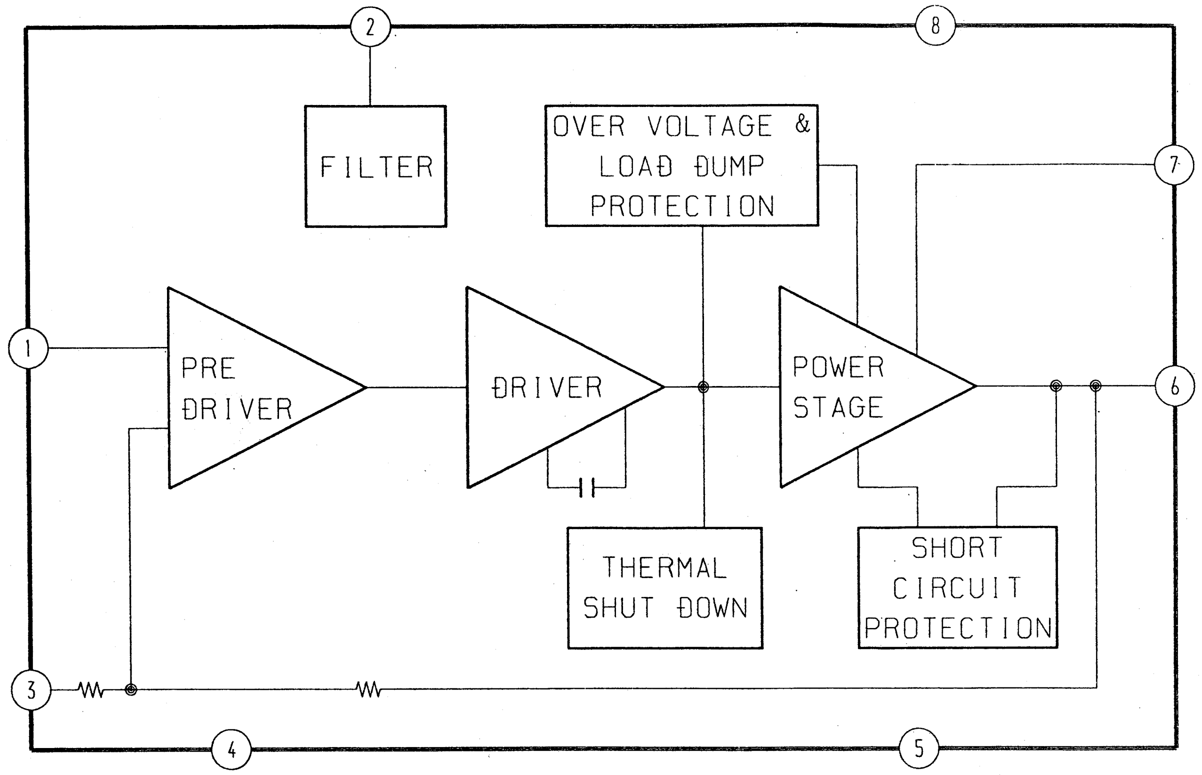
QB BOARD



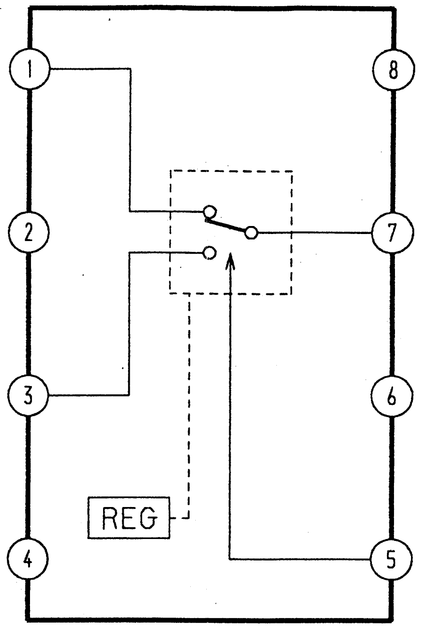
QB BOARD IC112 µPC1406HA


4
6
1
ATT 1
ATT 2
Regulator
5
3
2
7
8
9

QB BOARD IC113 µPC1241H


2
8
FILTER
OVER VOLTAGE &
LOAD DUMP
PROTECTION
7
1
PRE
DRIVER
DRIVER
POWER
STAGE
6
THERMAL
SHUT DOWN
SHORT
CIRCUIT
PROTECTION
3
4
5

QB BOARD IC101 CXA1450M


1
8
2
7
3
6
REG
4
5

QB BOARD (COMPONENT SIDE)

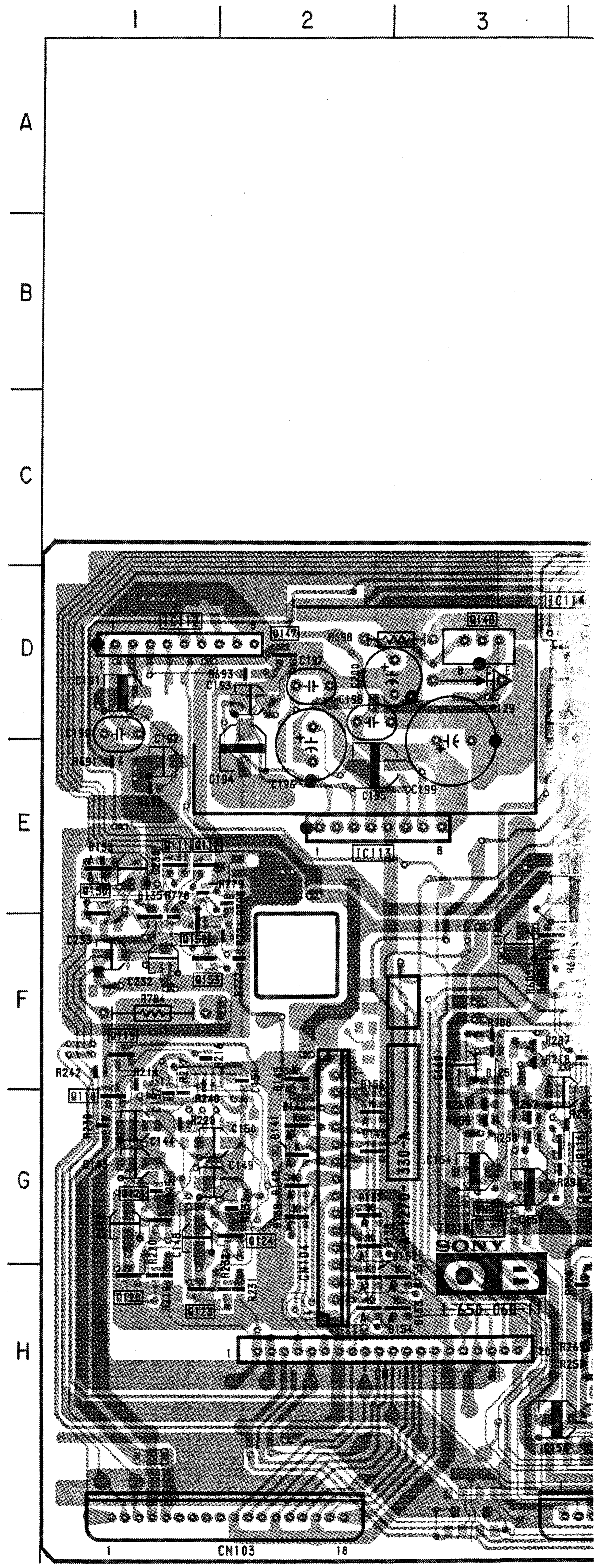
IC	
IC102	G-6
IC104	F-6
IC106	G-5
IC107	E-6
IC112	D-1
IC113	E-2
IC114	D-4
IC116	D-5
IC117	B-6
IC118	A-5
IC121	C-5
IC122	C-6
IC123	D-6

TRANSISTOR	
Q108	F-5
Q111	E-1
Q112	E-1
Q116	G-4
Q118	G-1
Q119	F-1
Q120	H-1
Q121	G-1
Q123	H-1
Q124	G-2
Q147	D-2
Q148	D-3
Q150	F-1
Q152	F-1
Q153	F-1

DIODE	
D133	E-1
D137	G-2
D138	H-2
D139	G-2
D140	G-2
D141	G-2
D142	G-2
D145	G-2
D146	G-2
D153	H-3
D154	H-2
D155	H-3
D156	G-2
D157	H-2

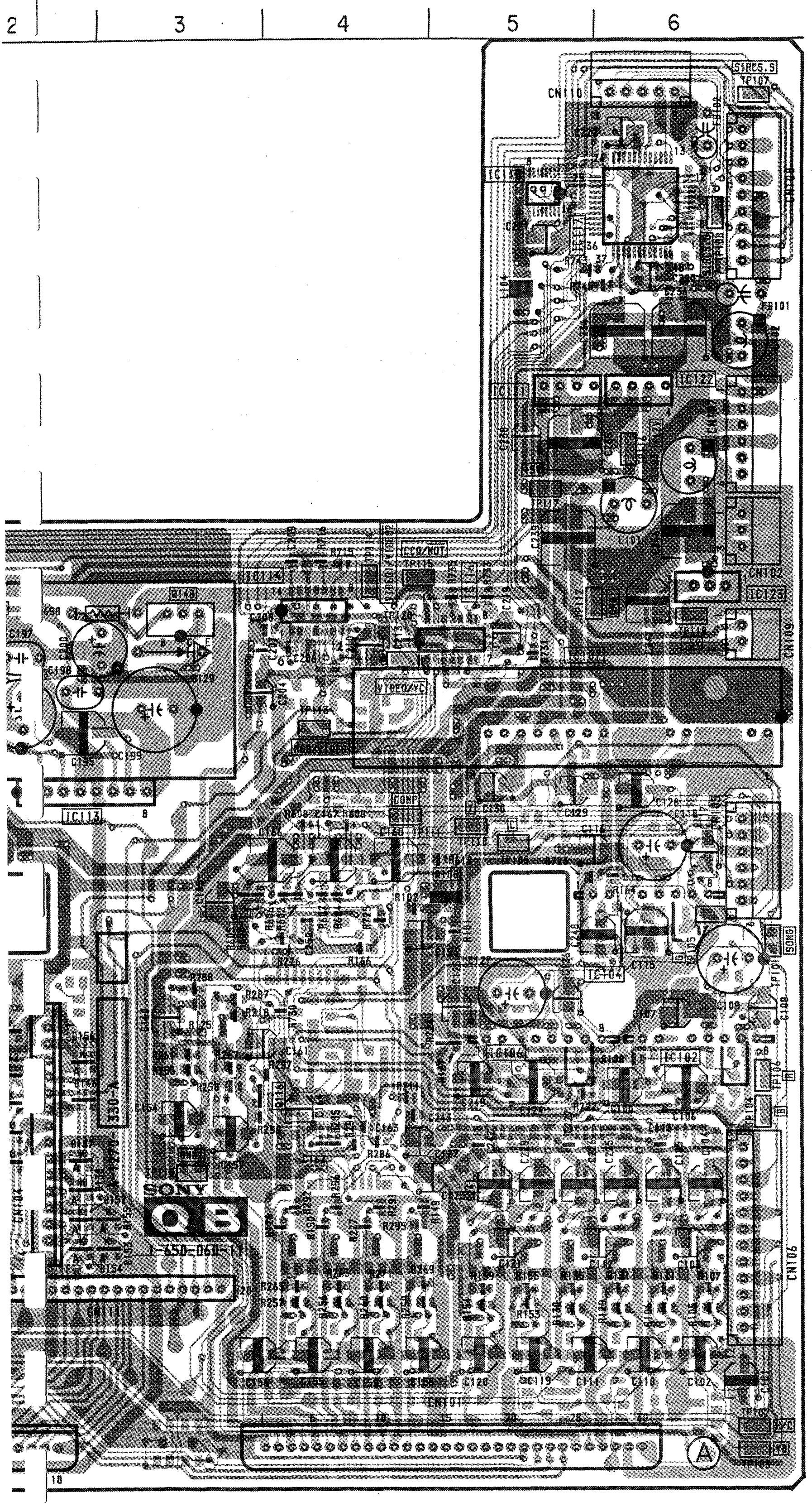
TEST POINT	
TP101	F-6
TP102	H-6
TP103	H-6
TP104	G-6
TP105	F-6
TP106	G-6
TP107	A-6
TP108	B-6
TP109	E-5
TP110	E-5
TP111	E-4
TP112	D-6
TP113	E-4
TP114	D-4
TP115	D-5
TP116	C-6
TP117	C-5
TP118	D-6
TP119	G-3
TP120	D-4

– QB BOARD – <Component Side>

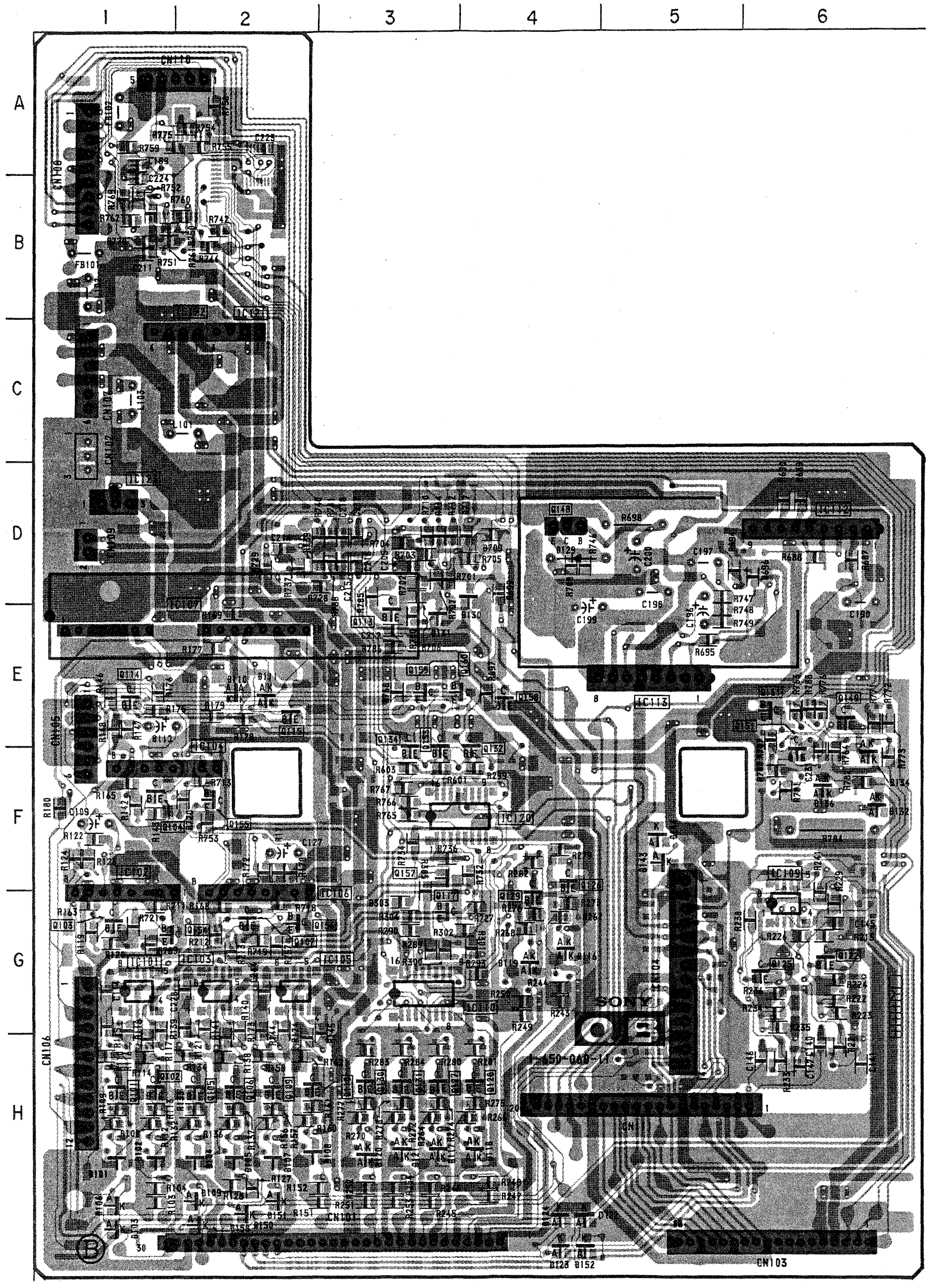

1
2
3
A
B
C
D
E
F
G
H
IC112
IC113
SONY
QB
CN103
1
18

T AUDIO]

<Component Side>


2
3
4
5
6
CN110
IC122
IC121
CN102
IC123
CN109
VIDEO/YC
IC113
IC104
IC106
IC102
IC107
SONY
QB
1-650-068-11
CN104
CN106
CN101
(A)

<Conductor Side>


1
2
3
4
5
6
A
B
C
D
E
F
G
H
CN110
CN108
FB101
IC122
IC121
IC123
CN105
IC107
IC104
IC113
IC120
IC109
IC106
IC102
IC101
IC105
IC110
IC112
SONY
QB
1-650-068-11
CN106
CN101
CN103
(B)

QB BOARD
(CONDUCTOR SIDE)

IC	
IC101	G-1
IC102	G-1
IC103	G-2
IC104	F-1
IC105	G-3
IC106	G-2
IC107	E-2
IC109	G-6
IC110	G-3
IC112	D-6
IC113	E-5
IC120	F-4
IC121	C-2
IC122	C-2
IC123	D-1

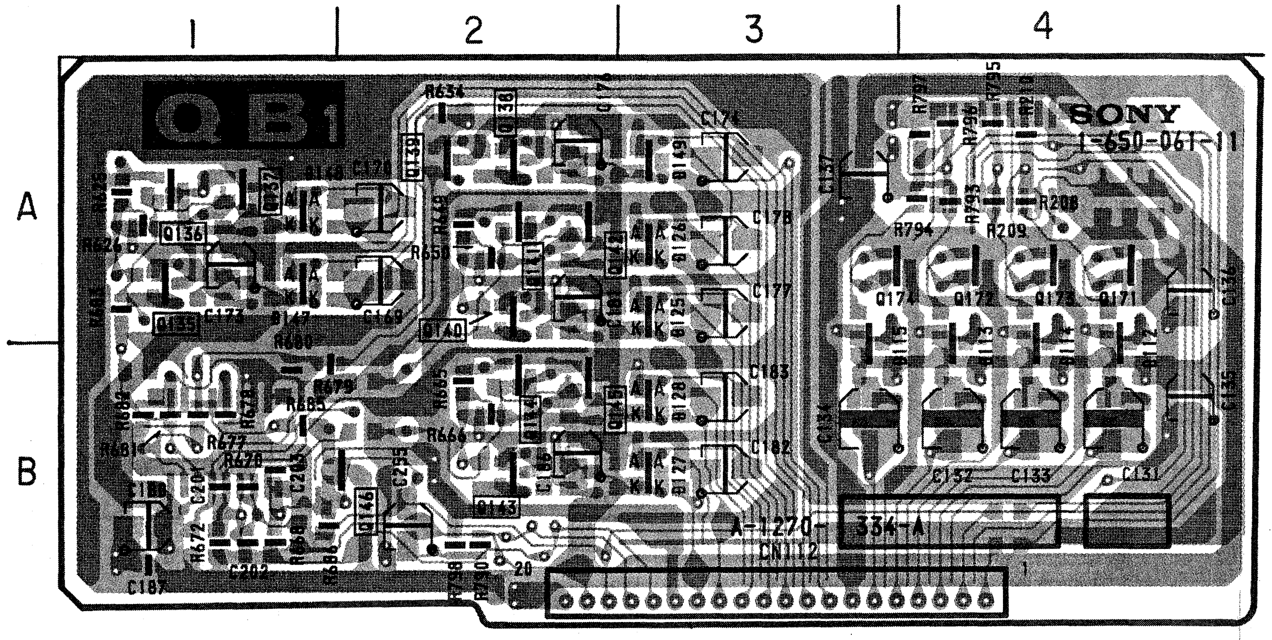
TRANSISTOR	
Q101	H-1
Q102	H-1
Q103	G-1
Q104	F-1
Q105	H-2
Q106	H-2
Q107	G-2
Q109	H-2
Q110	H-2
Q113	E-3
Q114	E-1
Q115	E-2
Q117	G-3
Q122	G-6
Q125	G-6
Q126	G-4
Q127	H-3
Q128	H-4
Q129	G-4
Q130	H-3
Q131	H-3
Q132	F-4
Q133	F-3
Q134	F-3
Q148	D-4
Q149	E-6
Q151	F-6
Q154	G-2
Q155	F-2
Q156	G-2
Q157	F-3
Q158	E-4
Q159	E-3
Q160	E-4
Q161	E-6

DIODE	
D103	H-1
D106	H-1
D109	H-2
D110	E-2
D111	E-2
D116	G-4
D117	H-3
D118	H-4
D119	G-4
D120	H-3
D121	H-3
D122	H-4
D123	H-4
D124	H-4
D132	F-6
D134	F-6
D136	F-6
D143	F-5
D144	F-5
D150	H-2
D151	H-2
D152	H-4
D158	H-2

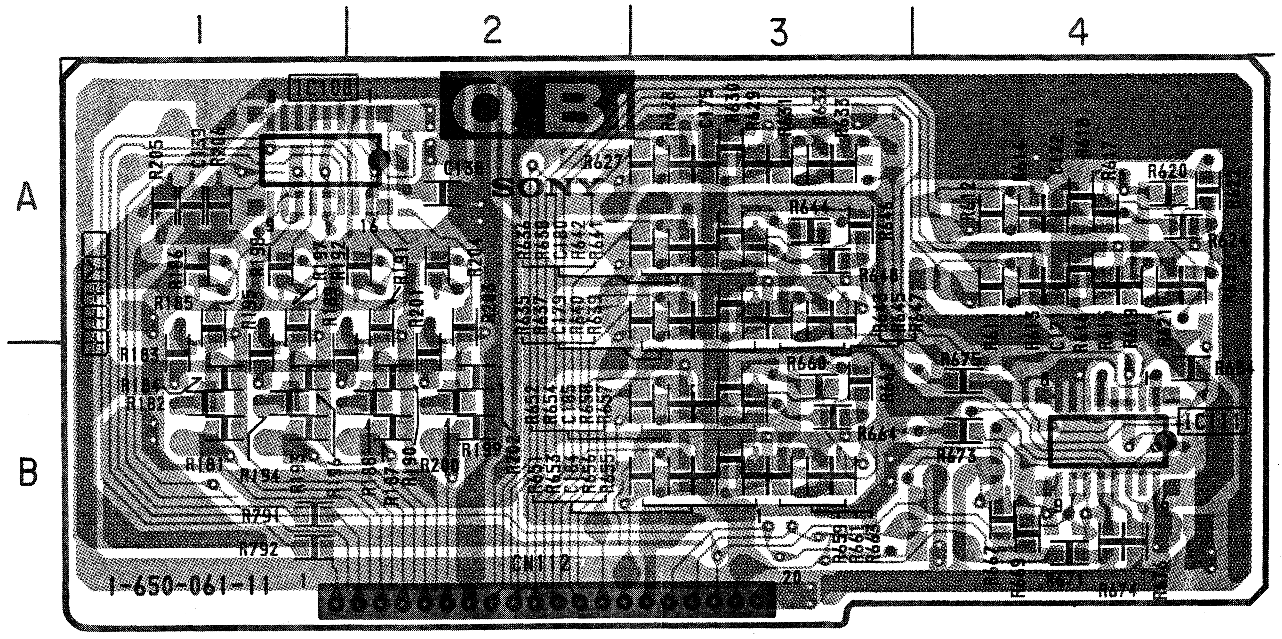
Note:
- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear.

QB1 [SIRCS]

– QB1 BOARD – **<Component Side>**


1
2
3
4
A
B
QB1
SONY
1-650-061-11
A-1270-334-A
CN112
Q135
Q136
Q137
Q138
Q139
Q140
Q141
Q142
Q143
Q144
Q145
Q146
Q171
Q172
Q173
Q174
D125
D126
D127
D128
D147
D148
C131
C132
C133
C134
C135
C137
C174
C177
C178
C182
C183
C187
R208
R209
R794
20

<Conductor Side>


1
2
3
4
A
B
QB1
SONY
IC108
IC111
1-650-061-11
CN112
R181
R182
R183
R184
R185
R186
R188
R189
R190
R199
R200
R205
R206
R620
R627
R644
R660
R664
R671
R673
R674
R791
R792
20

QB1 BOARD (COMPONENT SIDE)

TRANSISTOR	
Q135	A-1
Q136	A-1
Q137	A-1
Q138	A-2
Q139	A-2
Q140	A-2
Q141	A-2
Q142	A-2
Q143	B-2
Q144	B-2
Q145	B-2
Q146	B-2
Q171	A-4
Q172	A-4
Q173	A-4
Q174	A-4

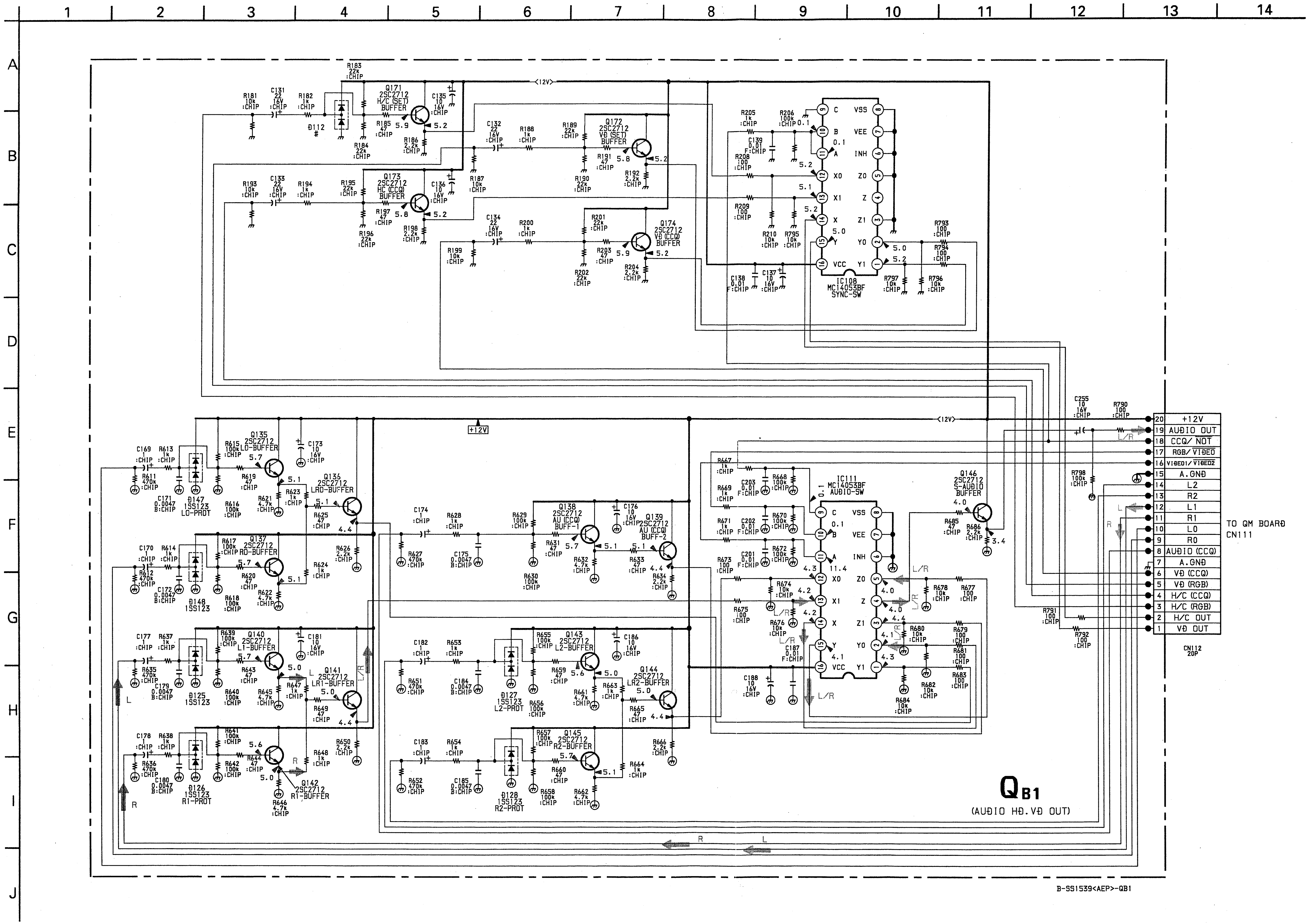
DIODE	
D125	A-3
D126	A-3
D127	B-3
D128	B-3
D147	A-1
D148	A-1

Note:
- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear.

QB1 BOARD (CONDUCTOR SIDE)

IC	
IC108	A-1
IC111	B-4

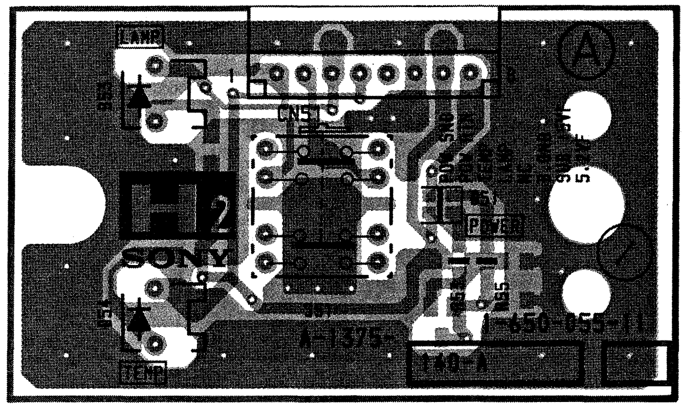
Schematic diagram
QB1 **board** ➡


1
2
3
4
5
6
7
8
9
10
11
12
13
14
A
B
C
D
E
F
G
H
I
J
Q171 2SC2712 H/C (SET) BUFFER
Q172 2SC2712 VD (SET) BUFFER
Q173 2SC2712 HC (CCQ) BUFFER
Q174 2SC2712 VD (CCQ) BUFFER
IC108 MC14053BF SYNC-SW
D112
<12V>
+12V
Q135 2SC2712 LO-BUFFER
Q136 2SC2712 LRO-BUFFER
Q137 2SC2712 RO-BUFFER
Q138 2SC2712 AU (CCQ) BUFF-1
Q139 2SC2712 AU (CCQ) BUFF-2
Q140 2SC2712 L1-BUFFER
Q141 2SC2712 LR1-BUFFER
Q142 2SC2712 R1-BUFFER
Q143 2SC2712 L2-BUFFER
Q144 2SC2712 LR2-BUFFER
Q145 2SC2712 R2-BUFFER
Q146 2SC2712 S-AUDIO BUFFER
IC111 MC14053BF AUDIO-SW
D147 1SS123 LO-PROT
D148 1SS123
D125 1SS123
D126 1SS123 R1-PROT
D127 1SS123 L2-PROT
D128 1SS123 R2-PROT
C VSS
B VEE
A INH
X0 Z0
X1 Z
X Z1
Y Y0
VCC Y1
20 +12V
19 AUDIO OUT
18 CCQ/ NOT
17 RGB/ VIDEO
16 VIDEO1/ VIDEO2
15 A.GND
14 L2
13 R2
12 L1
11 R1
10 LO
9 RO
8 AUDIO (CCQ)
7 A.GND
6 VD (CCQ)
5 VD (RGB)
4 H/C (CCQ)
3 H/C (RGB)
2 H/C OUT
1 VD OUT
CN112 20P
TO QM BOARD CN111
L/R
L
R
QB1
(AUDIO HD.VD OUT)
B-SS1539<AEP>-QB1

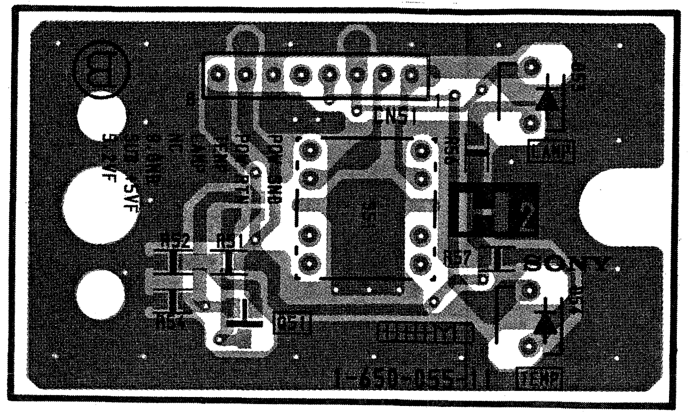
H2 [POWER SW]

H3 [SIRCS]

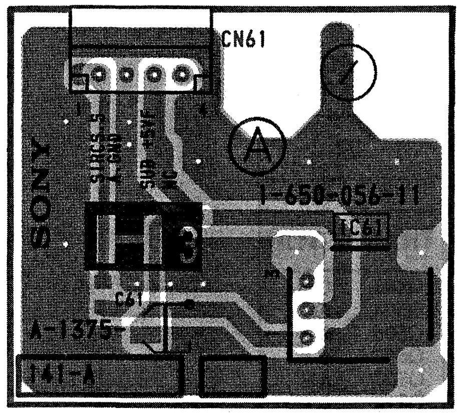
– H2 BOARD – <Component Side>


LAMP
CN51
A
H2
SONY
POWER
A-1375-
140-A
1-650-055-11
TEMP

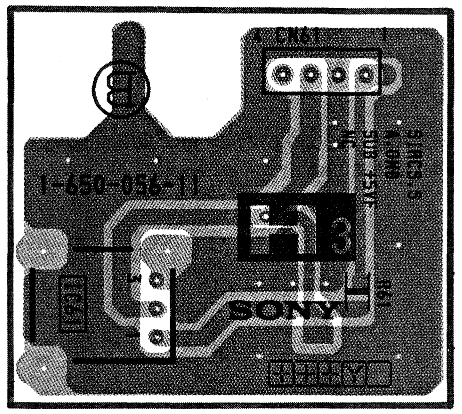
<Conductor Side>


B
CN51
H2
SONY
R52
R51
R57
R54
LAMP
TEMP
1-650-055-11

– H3 BOARD – <Component Side>

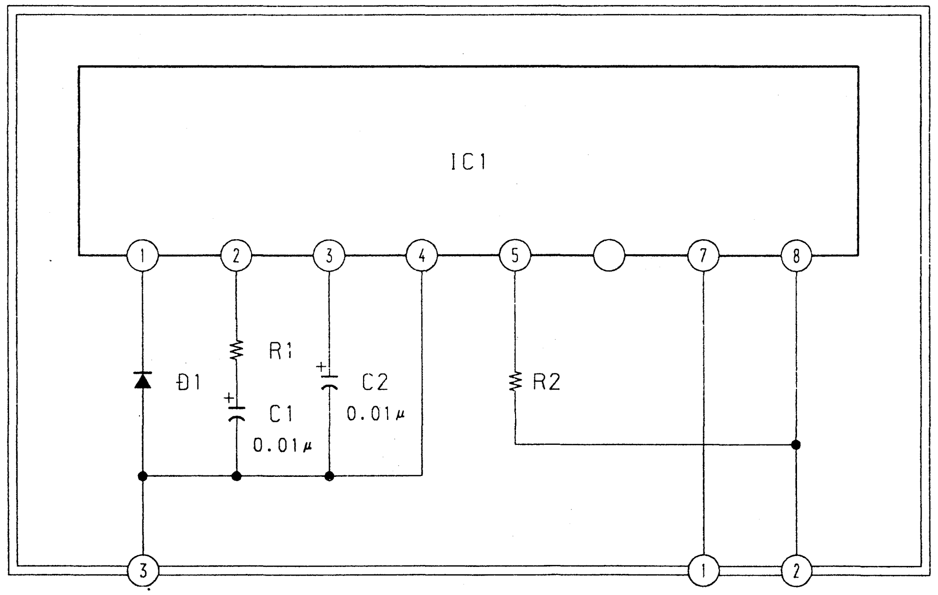

CN61
SONY
A
H3
1-650-056-11
IC61
C61
A-1375-
141-A

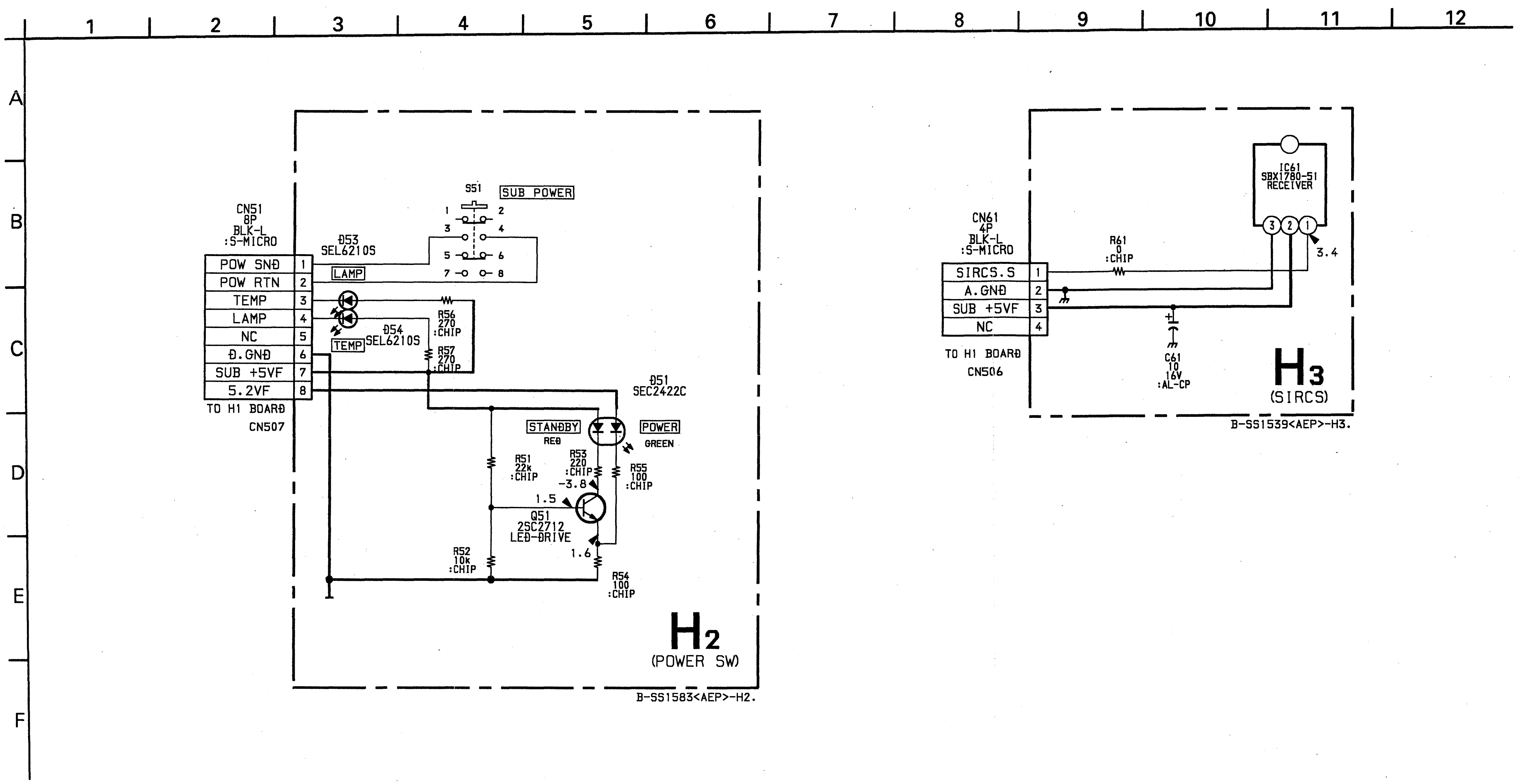
<Conductor Side>


CN61
B
1-650-056-11
H3
SONY
IC61
R61

Note:
- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear.

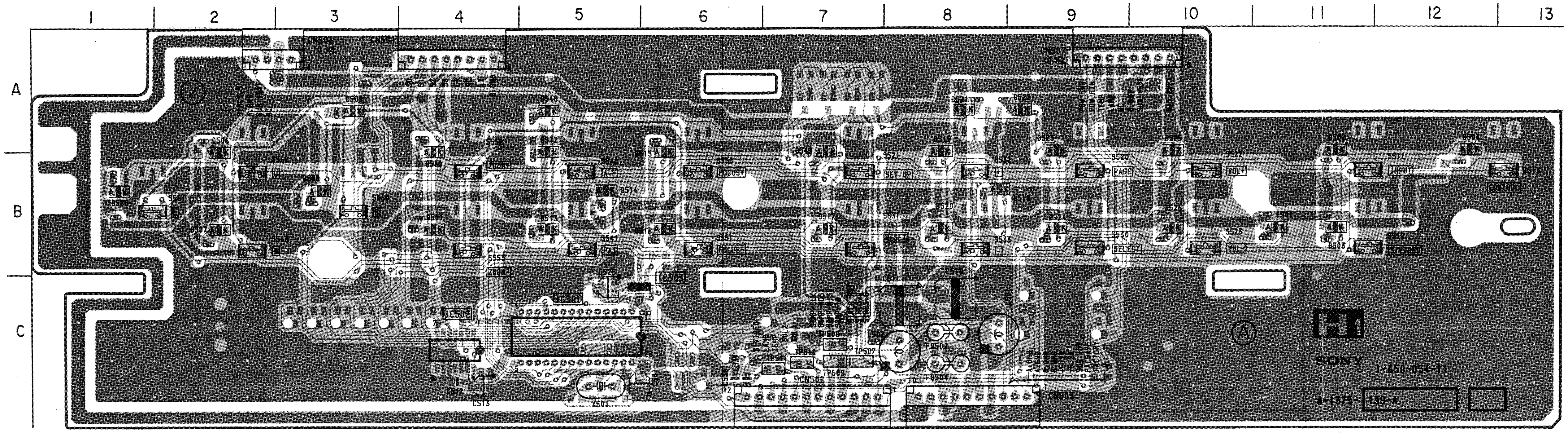
H3 BOARD IC61 SBX1780-51


IC1
1
2
3
4
5
7
8
D1
R1
C1
0.01μ
C2
0.01μ
R2
3
1
2

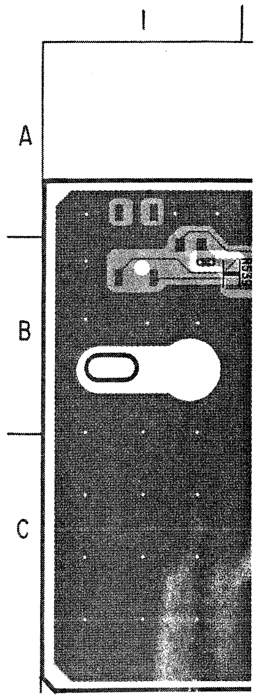

1
2
3
4
5
6
7
8
9
10
11
12
A
B
C
D
E
F
CN51
8P
BLK-L
:S-MICRO
POW SNĐ 1
POW RTN 2
TEMP 3
LAMP 4
NC 5
Đ.GNĐ 6
SUB +5VF 7
5.2VF 8
TO H1 BOARĐ
CN507
Đ53
SEL6210S
LAMP
Đ54
SEL6210S
TEMP
S51
SUB POWER
1
2
3
4
5
6
7
8
R56
270
:CHIP
R57
270
:CHIP
Đ51
SEC2422C
STANĐBY
REĐ
POWER
GREEN
R51
22k
:CHIP
R53
220
:CHIP
-3.8
R55
100
:CHIP
1.5
Q51
2SC2712
LEĐ-ĐRIVE
1.6
R52
10k
:CHIP
R54
100
:CHIP
H2
(POWER SW)
B-SS1583<AEP>-H2.
CN61
4P
BLK-L
:S-MICRO
SIRCS.S 1
A.GNĐ 2
SUB +5VF 3
NC 4
TO H1 BOARĐ
CN506
R61
0
:CHIP
IC61
SBX1780-51
RECEIVER
3
2
1
3.4
C61
10
16V
:AL-CP
H3
(SIRCS)
B-SS1539<AEP>-H3.

H1 [CONTROL PANEL]

– H1 BOARD – **<Component Side>**


1
2
3
4
5
6
7
8
9
10
11
12
13
A
B
C
CN504
CN501
CN507
IC501
IC502
IC503
FOCUS+
FOCUS-
SET UP
PAGE
SELECT
VOL+
VOL-
INPUT
CONTROL
ZOOM+
CN502
CN503
X501
TP507
TP508
TP509
SONY
1-650-054-11
A-1375-139-A

<Cond

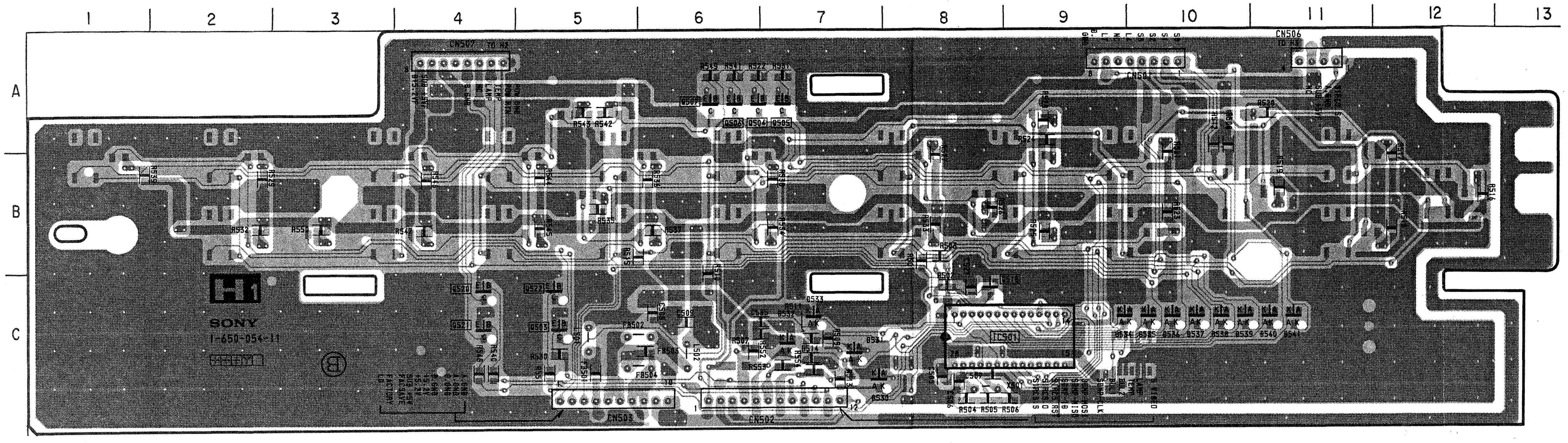


**H1 BOARD
(COMPONENT SIDE)**

IC			
IC501	C-5	D514	B-5
IC502	C-4	D515	B-6
IC503	C-6	D516	B-6
DIODE		D517	B-7
D501	B-11	D518	B-9
D502	B-11	D519	B-8
D503	B-11	D520	B-8
D504	B-13	D521	A-8
D505	B-1	D522	A-9
D506	B-2	D523	B-9
D507	B-2	D524	B-9
D508	B-3	D525	B-10
D509	A-3	D526	B-10
D510	B-4	**TEST POINT**	
D511	B-4	TP507	C-7
D512	B-5	TP508	C-7
D513	B-5	TP509	C-7
		TP510	C-7
		TP511	C-7

Schematic diagrams
← H2 H3 **boards**

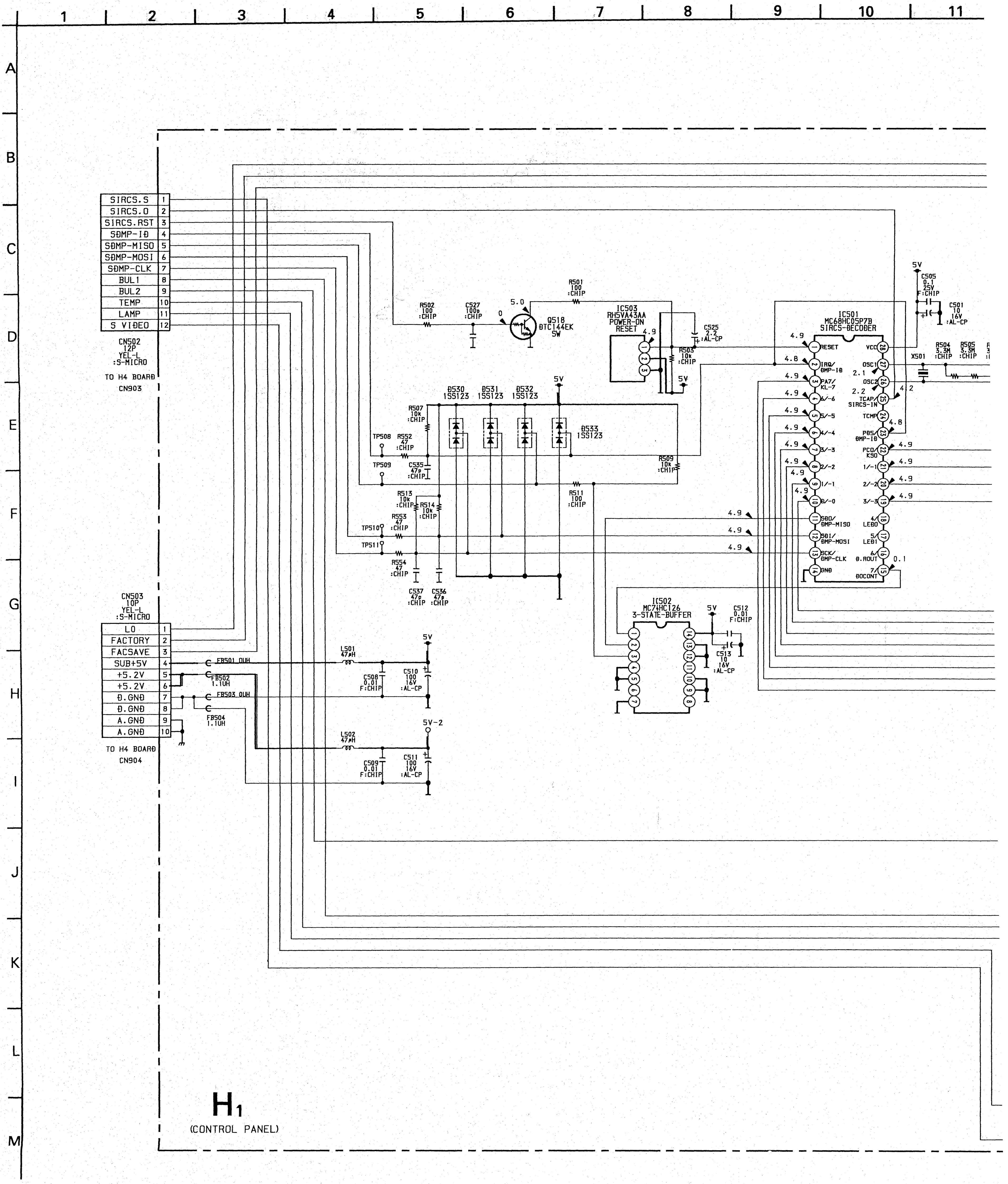
<Conductor Side>

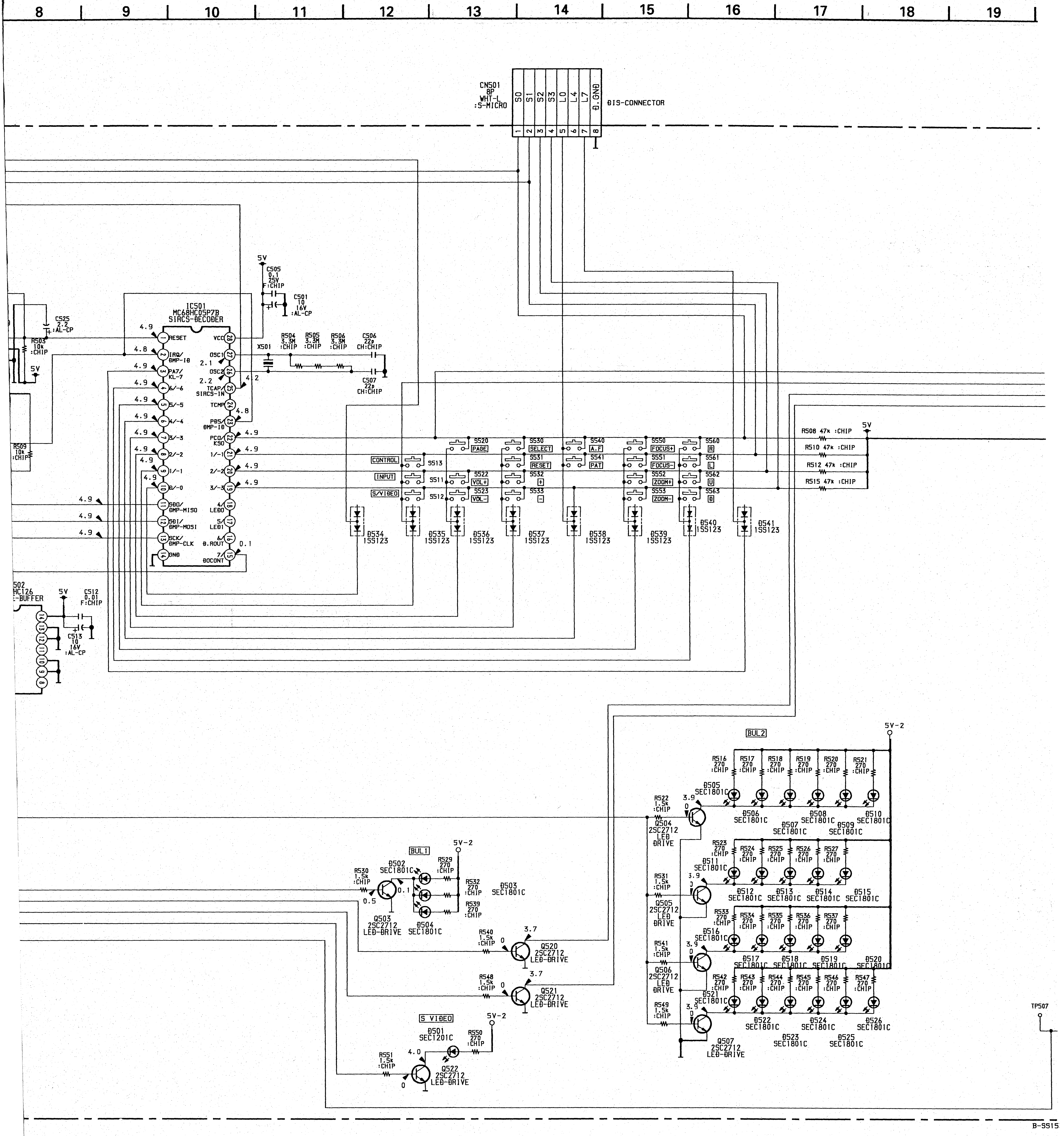

1
2
3
4
5
6
7
8
9
10
11
12
13
A
B
C
CN507 TO H2
CN501
CN506 TO H3
IC501
CN503
CN502
H1
SONY
1-650-054-11
Q504
Q505
Q506
Q507
Q520
Q521
Q522
Q503
Q518
D530
D531
D532
D533
D534
D535
D536
D537
D538
D539
D540
D541
FB502
FB503
FB504
L502
R504 R505 R506

Note:
- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear.

H1 BOARD
(CONDUCTOR SIDE)

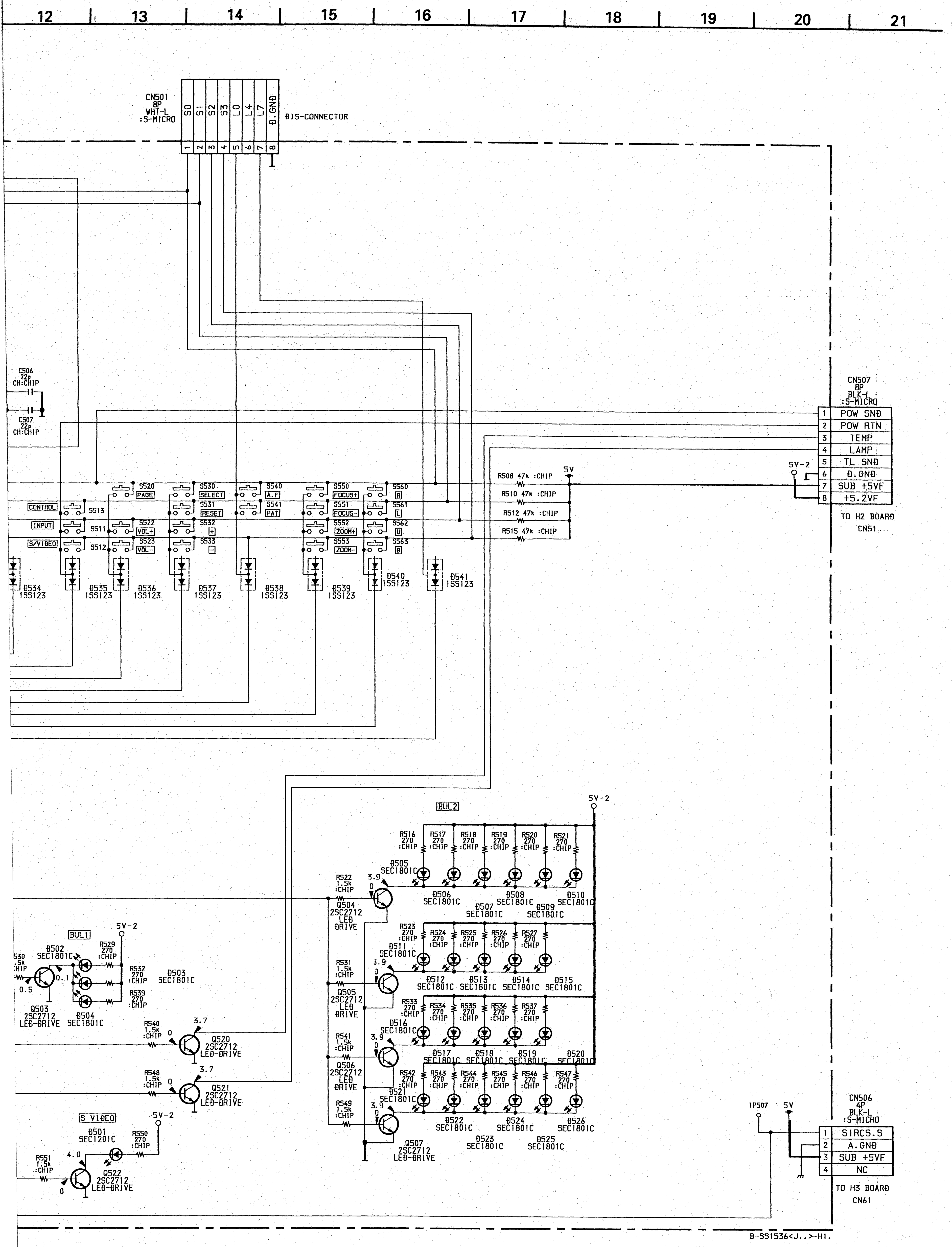
IC	
IC501	C-9
TRANSISTOR	
Q503	C-5
Q504	A-7
Q505	A-7
Q506	A-6
Q507	A-6
Q518	C-9
Q520	C-4
Q521	C-4
Q522	C-5
DIODE	
D530	C-8
D531	C-7
D532	C-7
D533	C-7
D534	C-10
D535	C-10
D536	C-10
D537	C-10
D538	C-10
D539	C-11
D540	C-11
D541	C-11


1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
H
I
J
K
L
M
SIRCS.S 1
SIRCS.O 2
SIRCS.RST 3
SDMP-ID 4
SDMP-MISO 5
SDMP-MOSI 6
SDMP-CLK 7
BUL1 8
BUL2 9
TEMP 10
LAMP 11
S VIDEO 12
CN502
12P
YEL-L
:S-MICRO
TO H4 BOARD
CN903
R502
100
:CHIP
C527
100p
:CHIP
0
5.0
Q518
DTC144EK
SW
R501
100
:CHIP
IC503
RH5VA43AA
POWER-ON
RESET
4.9
R503
10k
:CHIP
C525
2.2
:AL-CP
5V
D530
1SS123
D531
1SS123
D532
1SS123
D533
1SS123
5V
R507
10k
:CHIP
TP508
R552
47
:CHIP
TP509
C535
47p
:CHIP
R509
10k
:CHIP
R511
100
:CHIP
R513
10k
:CHIP
R514
10k
:CHIP
R553
47
:CHIP
TP510
TP511
R554
47
:CHIP
C537
47p
:CHIP
C536
47p
:CHIP
4.9
4.9
4.9
5V
C505
0.1
25V
F:CHIP
C501
10
16V
:AL-CP
IC501
MC68HC05P7B
SIRCS-DECODER
4.9
RESET
VCC
4.8
IRQ/
DMP-ID
OSC1
2.1
4.9
PA7/
KL-7
OSC2
2.2
4.2
4.9
6/-6
TCAP/
SIRCS-IN
4.9
5/-5
TCMP
4.8
4.9
4/-4
PD5/
DMP-ID
4.9
3/-3
PC0/
KS0
4.9
4.9
2/-2
1/-1
4.9
4.9
1/-1
2/-2
4.9
4.9
0/-0
3/-3
4.9
SDO/
DMP-MISO
4/
LED0
SDI/
DMP-MOSI
5/
LED1
SCK/
DMP-CLK
6/
D.ROUT
0.1
GND
7/
DOCONT
R504
3.3M
:CHIP
R505
3.3M
:CHIP
X501
IC502
MC74HC126
3-STATE-BUFFER
5V
C512
0.01
F:CHIP
C513
10
16V
:AL-CP
CN503
10P
YEL-L
:S-MICRO
LO 1
FACTORY 2
FACSAVE 3
SUB+5V 4
+5.2V 5
+5.2V 6
D.GND 7
D.GND 8
A.GND 9
A.GND 10
TO H4 BOARD
CN904
FB501 0UH
FB502
1.1UH
FB503 0UH
FB504
1.1UH
L501
47μH
5V
C508
0.01
F:CHIP
C510
100
16V
:AL-CP
L502
47μH
5V-2
C509
0.01
F:CHIP
C511
100
16V
:AL-CP
H1
(CONTROL PANEL)


8
9
10
11
12
13
14
15
16
17
18
19
CN501 8P WHT-L :S-MICRO
S0 S1 S2 S3 L0 L4 L7 D.GND
DIS-CONNECTOR
IC501 MC68HC05P7B SIRCS-DECODER
RESET
IRQ/ DMP-ID
PA7/ KL-7
VCC
OSC1
OSC2
TCAP/ SIRCS-IN
TCMP
PD5/ DMP-ID
PCO/ KS0
SDO/ DMP-MISO
SDI/ DMP-MOSI
SCK/ DMP-CLK
GND
LED0
LED1
D.ROUT
DOCONT
X501
C505 0.1 25V F:CHIP
C501 10 16V :AL-CP
C525 2.2 :AL-CP
R503 10k :CHIP
R504 3.3M :CHIP
R505 3.3M :CHIP
R506 3.3M :CHIP
C506 22p CH:CHIP
C507 22p CH:CHIP
R509 10k :CHIP
502 HC126 BUFFER
C512 0.01 F:CHIP
C513 10 16V :AL-CP
5V
CONTROL
INPUT
S/VIDEO
S513
S511
S512
S520 PAGE
S522 VOL+
S523 VOL-
S530 SELECT
S531 RESET
S532 +
S533 -
S540 A.F
S541 PAT
S550 FOCUS+
S551 FOCUS-
S552 ZOOM+
S553 ZOOM-
S560 R
S561 L
S562 U
S563 D
D534 1SS123
D535 1SS123
D536 1SS123
D537 1SS123
D538 1SS123
D539 1SS123
D540 1SS123
D541 1SS123
R508 47k :CHIP
R510 47k :CHIP
R512 47k :CHIP
R515 47k :CHIP
BUL2
5V-2
R516 270 :CHIP
R517 270 :CHIP
R518 270 :CHIP
R519 270 :CHIP
R520 270 :CHIP
R521 270 :CHIP
D505 SEC1801C
D506 SEC1801C
D507 SEC1801C
D508 SEC1801C
D509 SEC1801C
D510 SEC1801C
R522 1.5k :CHIP
Q504 2SC2712 LED DRIVE
R523 270 :CHIP
R524 270 :CHIP
R525 270 :CHIP
R526 270 :CHIP
R527 270 :CHIP
D511 SEC1801C
D512 SEC1801C
D513 SEC1801C
D514 SEC1801C
D515 SEC1801C
R531 1.5k :CHIP
Q505 2SC2712 LED DRIVE
R533 270 :CHIP
R534 270 :CHIP
R535 270 :CHIP
R536 270 :CHIP
R537 270 :CHIP
D516 SEC1801C
D517 SEC1801C
D518 SEC1801C
D519 SEC1801C
D520 SEC1801C
R541 1.5k :CHIP
Q506 2SC2712 LED DRIVE
R542 270 :CHIP
R543 270 :CHIP
R544 270 :CHIP
R545 270 :CHIP
R546 270 :CHIP
R547 270 :CHIP
D521 SEC1801C
D522 SEC1801C
D523 SEC1801C
D524 SEC1801C
D525 SEC1801C
D526 SEC1801C
R549 1.5k :CHIP
Q507 2SC2712 LED-DRIVE
BUL1
R530 1.5k :CHIP
D502 SEC1801C
R529 270 :CHIP
R532 270 :CHIP
R539 270 :CHIP
D503 SEC1801C
D504 SEC1801C
Q503 2SC2712 LED-DRIVE
R540 1.5k :CHIP
Q520 2SC2712 LED-DRIVE
R548 1.5k :CHIP
Q521 2SC2712 LED-DRIVE
S VIDEO
D501 SEC1201C
R550 270 :CHIP
R551 1.5k :CHIP
Q522 2SC2712 LED-DRIVE
TP507
B-SS15

Schematic diagram

← H1 board

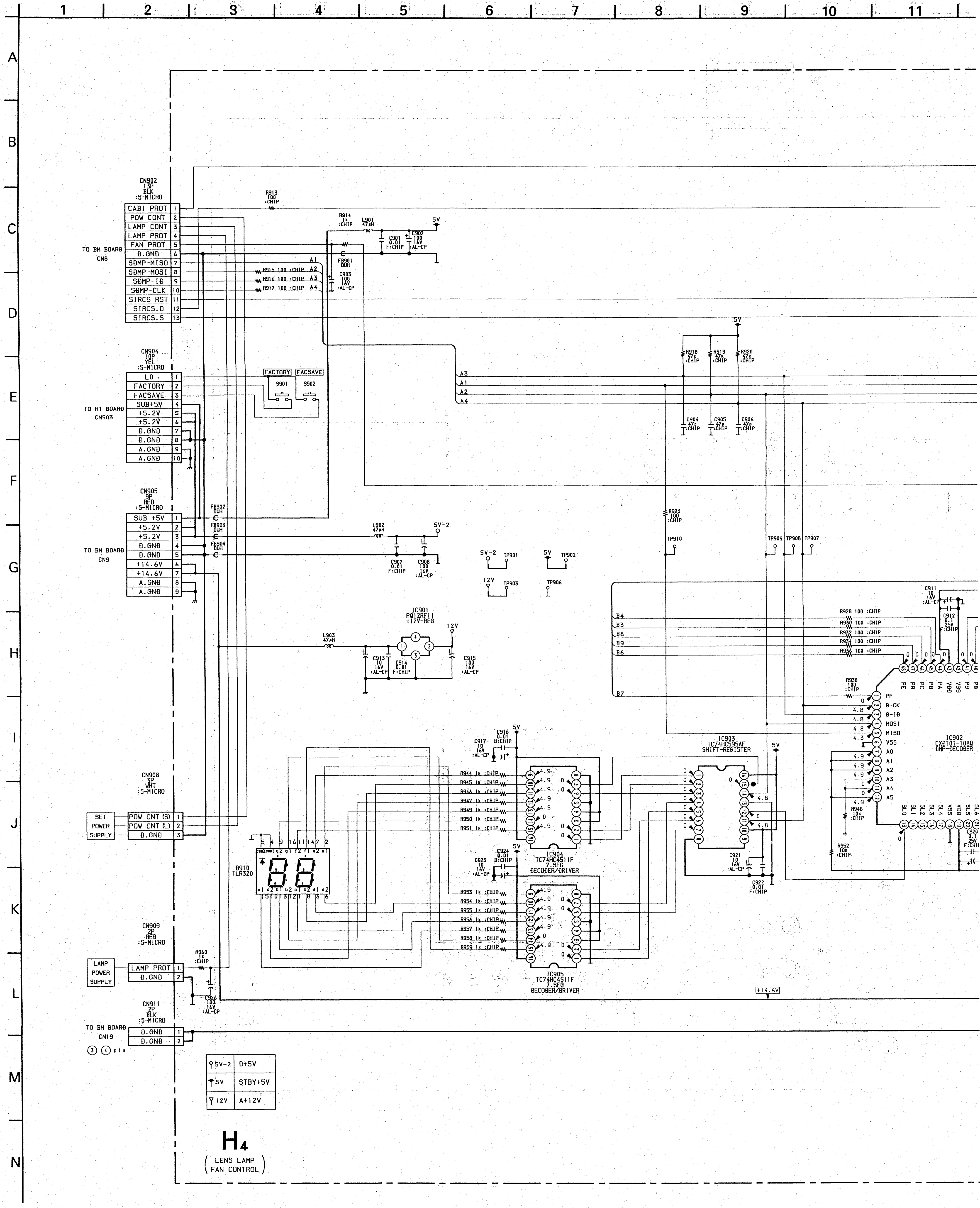

12
13
14
15
16
17
18
19
20
21
CN501
8P
WHT-L
:S-MICRO
S0
S1
S2
S3
L0
L4
L7
D.GND
DIS-CONNECTOR
C506
22p
CH:CHIP
C507
22p
CH:CHIP
CN507
8P
BLK-L
:S-MICRO
POW SND
POW RTN
TEMP
LAMP
TL SND
D.GND
SUB +5VF
+5.2VF
TO H2 BOARD
CN51
5V-2
5V
R508 47k :CHIP
R510 47k :CHIP
R512 47k :CHIP
R515 47k :CHIP
CONTROL
INPUT
S/VIDEO
S513
S511
S512
S520
PAGE
S522
VOL+
S523
VOL-
S530
SELECT
S531
RESET
S532
+
S533
-
S540
A.F
S541
PAT
S550
FOCUS+
S551
FOCUS-
S552
ZOOM+
S553
ZOOM-
S560
R
S561
L
S562
U
S563
D
D534
1SS123
D535
1SS123
D536
1SS123
D537
1SS123
D538
1SS123
D539
1SS123
D540
1SS123
D541
1SS123
BUL2
5V-2
R516
270
:CHIP
R517
R518
R519
R520
R521
270
:CHIP
D505
SEC1801C
D506
SEC1801C
D507
SEC1801C
D508
SEC1801C
D509
SEC1801C
D510
SEC1801C
R522
1.5k
:CHIP
Q504
2SC2712
LED
DRIVE
3.9
0
R523
270
:CHIP
R524
R525
R526
R527
D511
SEC1801C
R531
1.5k
:CHIP
Q505
2SC2712
LED
DRIVE
D512
SEC1801C
D513
SEC1801C
D514
SEC1801C
D515
SEC1801C
R533
R534
R535
R536
R537
D516
SEC1801C
R541
1.5k
:CHIP
Q506
2SC2712
LED
DRIVE
D517
D518
D519
D520
SEC1801C
R542
R543
R544
R545
R546
R547
270
:CHIP
D521
SEC1801C
R549
1.5k
:CHIP
Q507
2SC2712
LED-DRIVE
D522
SEC1801C
D523
SEC1801C
D524
SEC1801C
D525
SEC1801C
D526
SEC1801C
BUL1
5V-2
R529
270
:CHIP
D502
SEC1801C
R530
1.5k
:CHIP
0.1
0.5
Q503
2SC2712
LED-DRIVE
D503
SEC1801C
D504
SEC1801C
R532
270
:CHIP
R539
270
:CHIP
R540
1.5k
:CHIP
Q520
2SC2712
LED-DRIVE
3.7
R548
1.5k
:CHIP
Q521
2SC2712
LED-DRIVE
3.7
S VIDEO
5V-2
D501
SEC1201C
R550
270
:CHIP
4.0
R551
1.5k
:CHIP
Q522
2SC2712
LED-DRIVE
TP507
5V
CN506
4P
BLK-L
:S-MICRO
SIRCS.S
A.GND
SUB +5VF
NC
TO H3 BOARD
CN61
B-SS1536<J..>-H1.

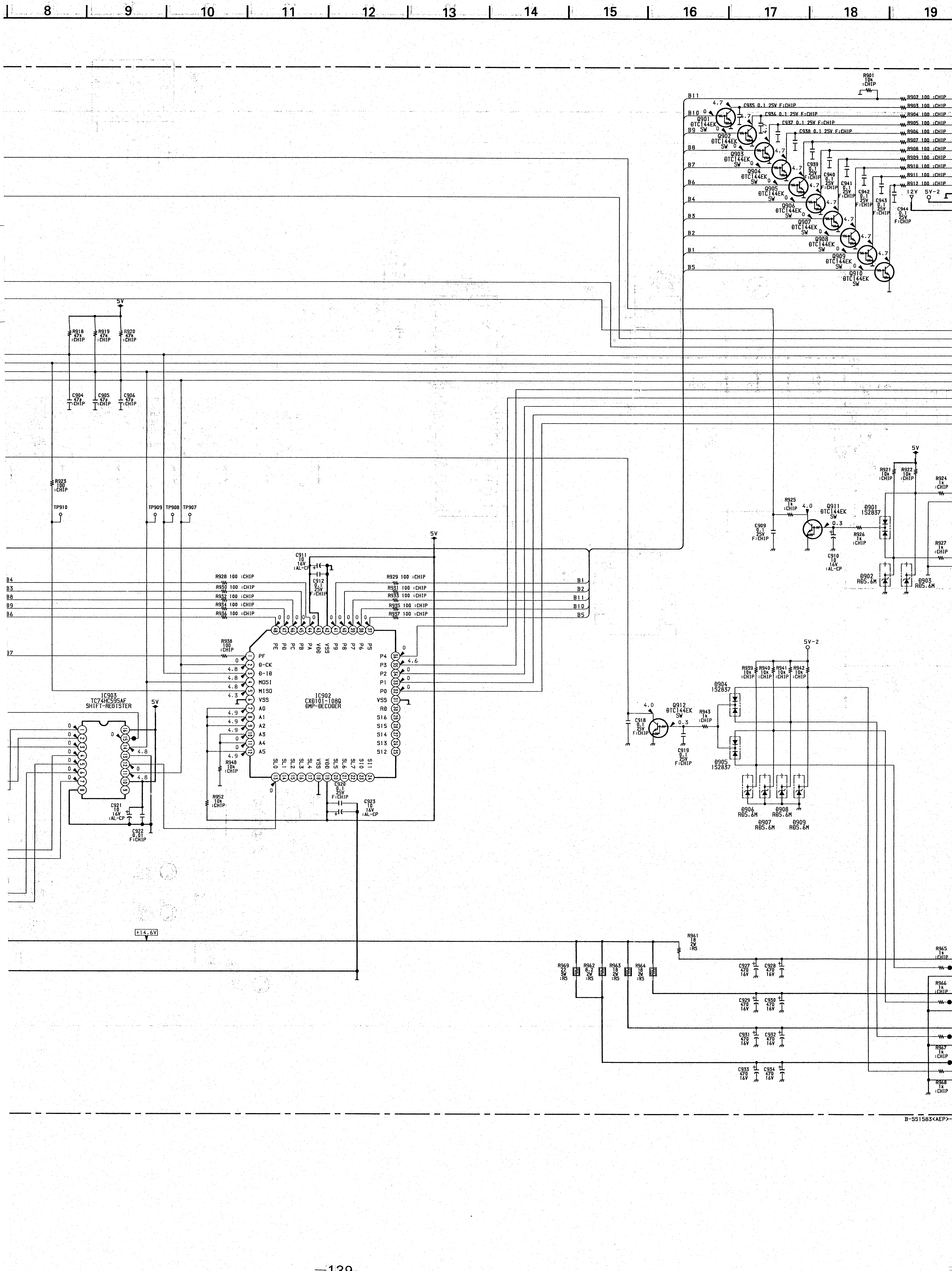
Schematic diagram

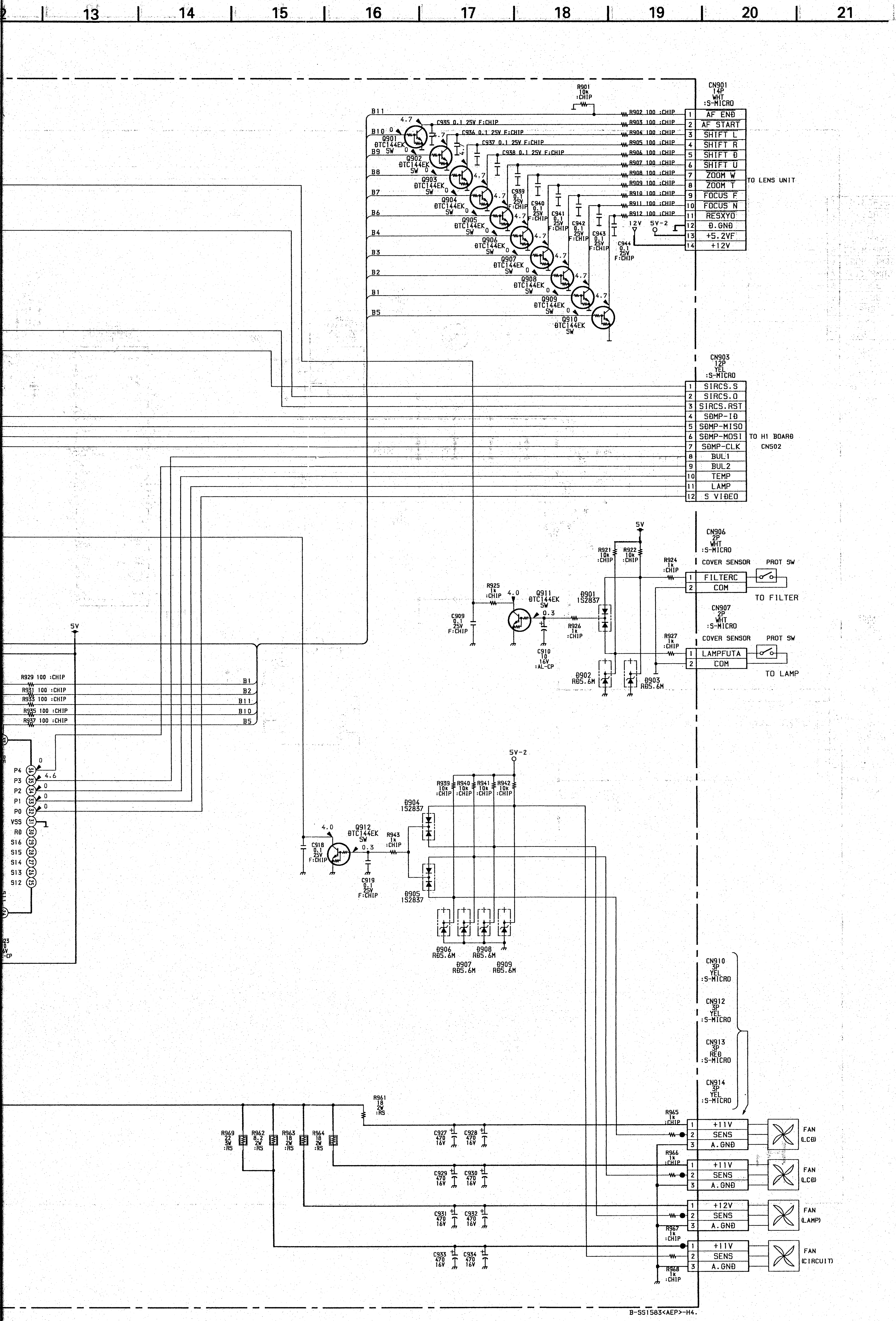
← H1 board

Schematic diagram

H4 board ⇒

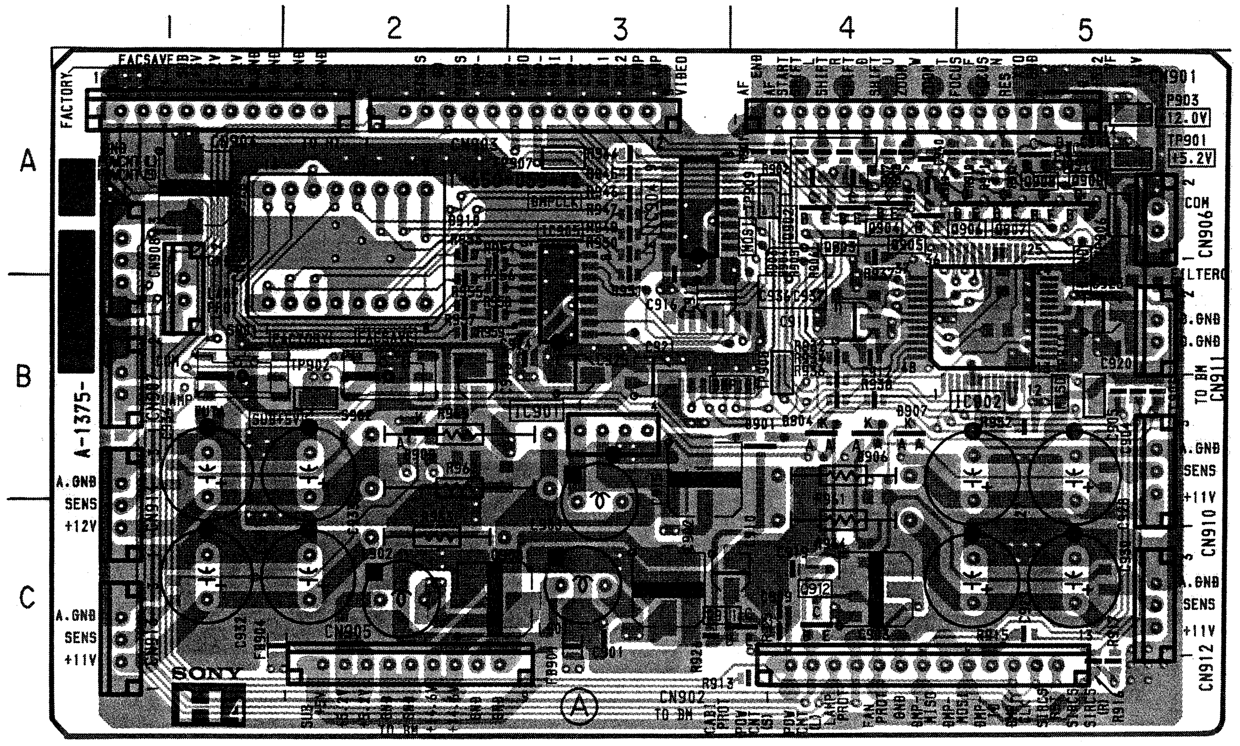

1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
H
I
J
K
L
M
N
CN902 13P BLK :S-MICRO
CABI PROT
POW CONT
LAMP CONT
LAMP PROT
FAN PROT
D.GND
SDMP-MISO
SDMP-MOSI
SDMP-ID
SDMP-CLK
SIRCS RST
SIRCS.O
SIRCS.S
TO BM BOARD CN8
R913 100 :CHIP
R914 1k :CHIP
L901 47μH
5V
C901 0.01 F:CHIP
C902 100 16V :AL-CP
FB901 0UH
C903 100 16V :AL-CP
R915 100 :CHIP
R916 100 :CHIP
R917 100 :CHIP
CN904 10P YEL :S-MICRO
LO
FACTORY
FACSAVE
SUB+5V
+5.2V
D.GND
A.GND
TO H1 BOARD CN503
S901
S902
R918 47k :CHIP
R919 47k :CHIP
R920 47k :CHIP
C904 47p :CHIP
C905 47p :CHIP
C906 47p :CHIP
CN905 9P RED :S-MICRO
SUB +5V
+14.6V
TO BM BOARD CN9
FB902 0UH
FB903 0UH
FB904 0UH
L902 47μH
5V-2
C907 0.01 F:CHIP
C908 100 16V :AL-CP
TP901
TP902
TP903
TP906
12V
R923 100 :CHIP
TP910
TP909
TP908
TP907
IC901 PQ12RF11 +12V-REG
L903 47μH
C913 10 16V :AL-CP
C914 0.01 F:CHIP
C915 100 16V :AL-CP
C911 10 16V :AL-CP
C912 0.1 25V F:CHIP
R928 100 :CHIP
R930 100 :CHIP
R932 100 :CHIP
R934 100 :CHIP
R936 100 :CHIP
R938 100 :CHIP
IC902 CXD8101-108Q DMP-DECODER
PF
D-CK
D-ID
MOSI
MISO
VSS
A0
A1
A2
A3
A4
A5
R948 10k :CHIP
R952 10k :CHIP
C920 0.1 25V F:CHIP
IC903 TC74HC595AF SHIFT-REGISTER
C921 10 16V :AL-CP
C922 0.01 F:CHIP
C916 0.01 B:CHIP
C917 10 16V :AL-CP
R944 1k :CHIP
R945 1k :CHIP
R946 1k :CHIP
R947 1k :CHIP
R949 1k :CHIP
R950 1k :CHIP
R951 1k :CHIP
IC904 TC74HC4511F 7.SEG DECODER/DRIVER
D910 TLR320
C924 0.01 B:CHIP
C925 10 16V :AL-CP
R953 1k :CHIP
R954 1k :CHIP
R955 1k :CHIP
R956 1k :CHIP
R957 1k :CHIP
R958 1k :CHIP
R959 1k :CHIP
IC905 TC74HC4511F 7.SEG DECODER/DRIVER
CN908 3P WHT :S-MICRO
SET POWER SUPPLY
POW CNT (S)
POW CNT (L)
CN909 2P RED :S-MICRO
LAMP POWER SUPPLY
LAMP PROT
R960 1k :CHIP
C926 100 16V :AL-CP
+14.6V
CN911 2P BLK :S-MICRO
TO BM BOARD CN19
③ ④ pin
5V-2 D+5V
5V STBY+5V
12V A+12V
H4
LENS LAMP FAN CONTROL


8
9
10
11
12
13
14
15
16
17
18
19
IC902
CXD101-108Q
DMP-DECODER
IC903
TC74HC595AF
SHIFT-REGISTER
Q901 DTC144EK SW
Q902 DTC144EK SW
Q903 DTC144EK SW
Q904 DTC144EK SW
Q905 DTC144EK SW
Q906 DTC144EK SW
Q907 DTC144EK SW
Q908 DTC144EK SW
Q909 DTC144EK SW
Q910 DTC144EK SW
Q911 DTC144EK SW
Q912 DTC144EK SW
D901 1S2837
D904 1S2837
D905 1S2837
D902 RD5.6M
D903 RD5.6M
D906 RD5.6M
D907 RD5.6M
D908 RD5.6M
D909 RD5.6M
R901 10k :CHIP
R902 100 :CHIP
R903 100 :CHIP
R904 100 :CHIP
R905 100 :CHIP
R906 100 :CHIP
R907 100 :CHIP
R908 100 :CHIP
R909 100 :CHIP
R910 100 :CHIP
R911 100 :CHIP
R912 100 :CHIP
R918 47k :CHIP
R919 47k :CHIP
R920 47k :CHIP
R923 100 :CHIP
R928 100 :CHIP
R929 100 :CHIP
R930 100 :CHIP
R931 100 :CHIP
R932 100 :CHIP
R933 100 :CHIP
R934 100 :CHIP
R935 100 :CHIP
R936 100 :CHIP
R937 100 :CHIP
R938 100 :CHIP
R948 10k :CHIP
R952 10k :CHIP
R961 18 2W :RS
R962 8.2 2W :RS
R963 18 2W :RS
R964 18 2W :RS
R969 22 3W :RS
C904 47p :CHIP
C905 47p :CHIP
C906 47p :CHIP
C909 0.1 25V F:CHIP
C910 10 16V :AL-CP
C911 10 16V :AL-CP
C912 0.1 25V F:CHIP
C918 0.1 25V F:CHIP
C919 0.1 25V F:CHIP
C920 0.1 25V F:CHIP
C921 10 16V :AL-CP
C922 0.01 F:CHIP
C923 10 16V :AL-CP
C927 470 16V
C928 470 16V
C929 470 16V
C930 470 16V
C931 470 16V
C932 470 16V
C933 470 16V
C934 470 16V
C935 0.1 25V F:CHIP
C936 0.1 25V F:CHIP
C937 0.1 25V F:CHIP
C938 0.1 25V F:CHIP
TP910
TP909
TP908
TP907
5V
5V-2
12V
+14.6V
PF
B-CK
D-IO
MOSI
MISO
VSS
A0
A1
A2
A3
A4
A5
P4
P3
P2
P1
P0
RD
S16
S15
S14
S13
S12
B1
B2
B3
B4
B5
B6
B7
B8
B9
B10
B11
B-SS1583<AEP>-


13
14
15
16
17
18
19
20
21
CN901 14P WHT :S-MICRO
1 AF END
2 AF START
3 SHIFT L
4 SHIFT R
5 SHIFT D
6 SHIFT U
7 ZOOM W
8 ZOOM T
9 FOCUS F
10 FOCUS N
11 RESXYO
12 D.GND
13 +5.2VF
14 +12V
TO LENS UNIT
R901 10k :CHIP
R902 100 :CHIP
R903 100 :CHIP
R904 100 :CHIP
R905 100 :CHIP
R906 100 :CHIP
R907 100 :CHIP
R908 100 :CHIP
R909 100 :CHIP
R910 100 :CHIP
R911 100 :CHIP
R912 100 :CHIP
C935 0.1 25V F:CHIP
C936 0.1 25V F:CHIP
C937 0.1 25V F:CHIP
C938 0.1 25V F:CHIP
C939 0.1 25V F:CHIP
C940 0.1 25V F:CHIP
C941 0.1 25V F:CHIP
C942 0.1 25V F:CHIP
C943 0.1 25V F:CHIP
C944 0.1 25V F:CHIP
Q901 DTC144EK SW
Q902 DTC144EK SW
Q903 DTC144EK SW
Q904 DTC144EK SW
Q905 DTC144EK SW
Q906 DTC144EK SW
Q907 DTC144EK SW
Q908 DTC144EK SW
Q909 DTC144EK SW
Q910 DTC144EK SW
B11
B10
B9
B8
B7
B6
B4
B3
B2
B1
B5
12V
5V-2
CN903 12P YEL :S-MICRO
1 SIRCS.S
2 SIRCS.O
3 SIRCS.RST
4 SDMP-ID
5 SDMP-MISO
6 SDMP-MOSI
7 SDMP-CLK
8 BUL1
9 BUL2
10 TEMP
11 LAMP
12 S VIDEO
TO HI BOARD CN502
5V
CN906 2P WHT :S-MICRO
COVER SENSOR
PROT SW
1 FILTERC
2 COM
TO FILTER
R921 10k :CHIP
R922 10k :CHIP
R924 1k :CHIP
R925 1k :CHIP
Q911 DTC144EK SW
D901 1SS2837
C909 0.1 25V F:CHIP
R926 1k :CHIP
C910 10 16V :AL-CP
CN907 2P WHT :S-MICRO
COVER SENSOR
PROT SW
R927 1k :CHIP
1 LAMPFUTA
2 COM
TO LAMP
D902 RD5.6M
D903 RD5.6M
R929 100 :CHIP
R931 100 :CHIP
R933 100 :CHIP
R935 100 :CHIP
R937 100 :CHIP
P4
P3
P2
P1
P0
VSS
RD
S16
S15
S14
S13
S12
5V-2
R939 10k :CHIP
R940 10k :CHIP
R941 10k :CHIP
R942 10k :CHIP
D904 1SS2837
Q912 DTC144EK SW
R943 1k :CHIP
C918 0.1 25V F:CHIP
C919 0.1 25V F:CHIP
D905 1SS2837
D906 RD5.6M
D907 RD5.6M
D908 RD5.6M
D909 RD5.6M
CN910 3P YEL :S-MICRO
CN912 3P YEL :S-MICRO
CN913 3P RED :S-MICRO
CN914 3P YEL :S-MICRO
R961 18 2W :RS
R969 22 3W :RS
R962 8.2 2W :RS
R963 18 2W :RS
R964 18 2W :RS
R965 1k :CHIP
R966 1k :CHIP
R967 1k :CHIP
R968 1k :CHIP
C927 470 16V
C928 470 16V
C929 470 16V
C930 470 16V
C931 470 16V
C932 470 16V
C933 470 16V
C934 470 16V
1 +11V
2 SENS
3 A.GND
FAN (LCD)
1 +11V
2 SENS
3 A.GND
FAN (LCD)
1 +12V
2 SENS
3 A.GND
FAN (LAMP)
1 +11V
2 SENS
3 A.GND
FAN (CIRCUIT)
B-SS1583<AEP>-H4.

H4 [LENS. LAMP. FAN CONTROL]

– H4 BOARD – <Component Side>


1
2
3
4
5
A
B
C
FACTORY
FACSAVE
A-1375-
A.GND
SENS
+12V
A.GND
SENS
+11V
CN901
TP903
12.0V
TP901
5.2V
COM
CN906
FILTERC
D.GND
D.GND
TO BM
CN911
A.GND
SENS
+11V
CN910
A.GND
SENS
+11V
CN912
CN905
CN902
TO BM
SONY
H4

H4 BOARD (COMPONENT SIDE)

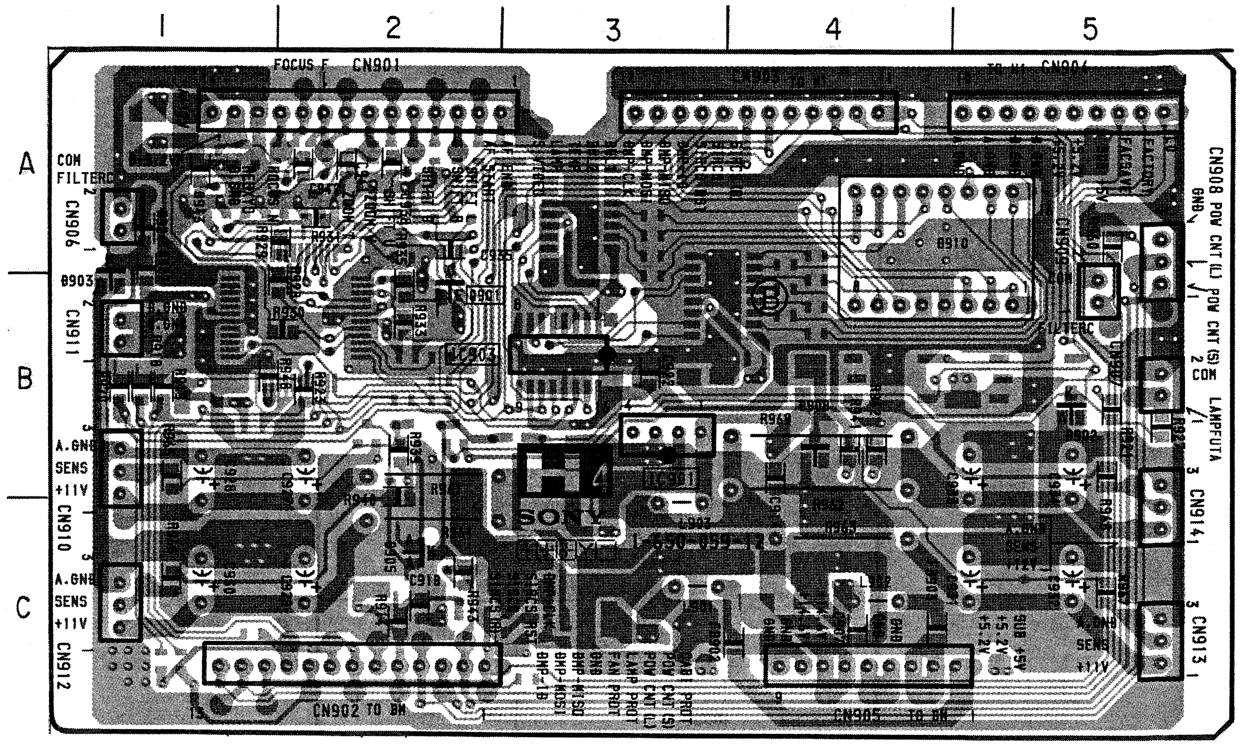
IC	
IC901	B-3
IC902	B-5
IC904	A-3
IC905	B-3

TRANSISTOR	
Q902	A-4
Q903	A-4
Q904	A-4
Q905	A-4
Q906	A-5
Q907	A-5
Q908	A-5
Q909	A-5
Q910	A-5
Q911	C-4
Q912	C-4

DIODE	
D901	B-4
D904	B-4
D906	B-4
D907	B-4
D909	B-2
D910	A-2

TEST POINT	
TP901	A-5
TP902	B-2
TP903	A-5
TP906	A-5
TP907	B-3
TP908	B-4
TP909	A-4
TP910	B-5

<Conductor Side>


1
2
3
4
5
A
B
C
FOCUS F
CN901
CN904
COM
FILTERC
CN906
CN911
A.GND
SENS
+11V
CN910
A.GND
SENS
+11V
CN912
CN902 TO BM
CN905 TO BM
CN908 POW CNT (L) POW CNT (S)
2 COM
LAMPFUTA
3 CN914
3 CN913
SONY
H4

Note:
- ▩ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear.

H4 BOARD (CONDUCTOR SIDE)

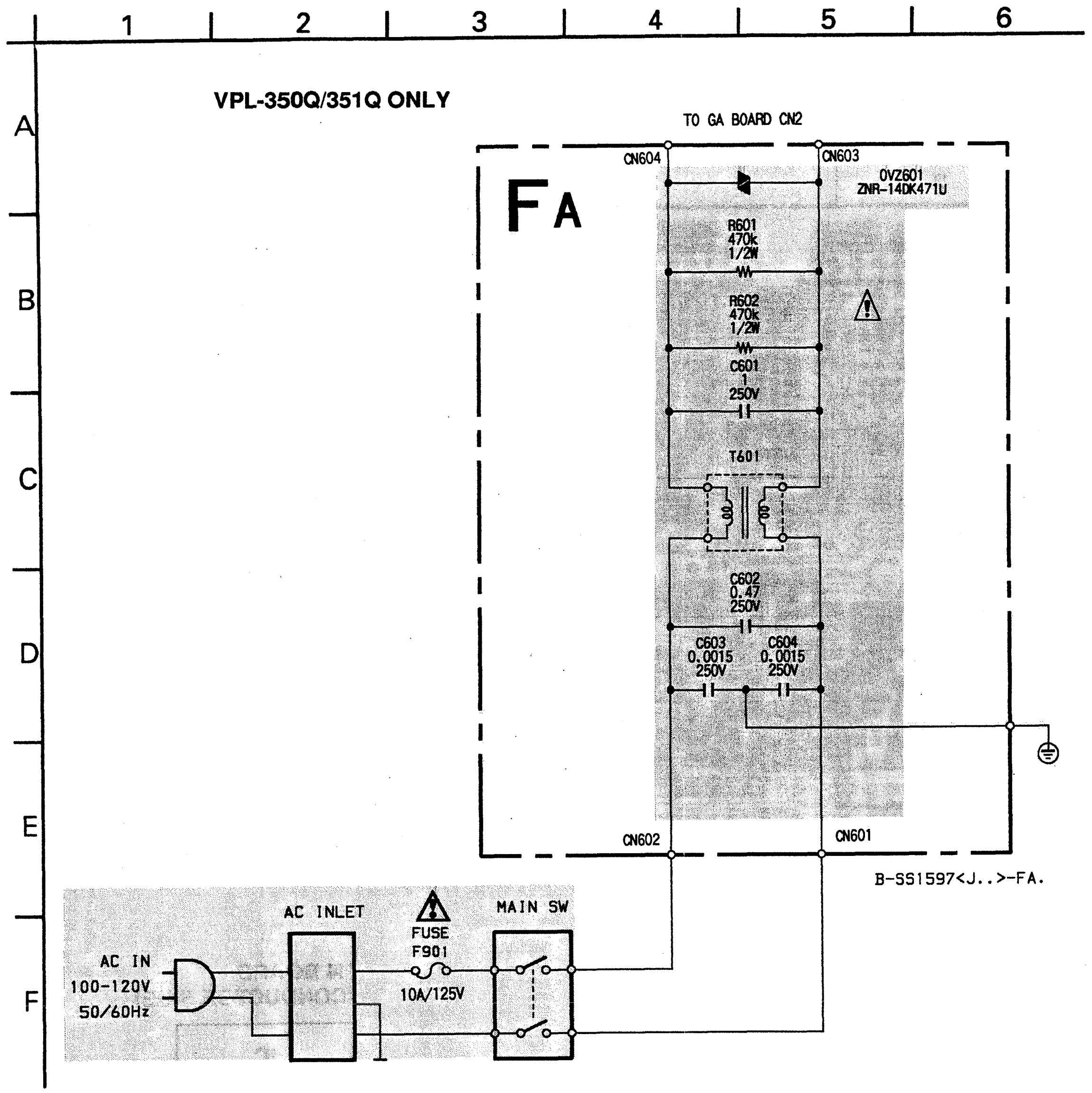
IC	
IC901	B-3
IC903	B-3

TRANSISTOR	
Q901	B-2

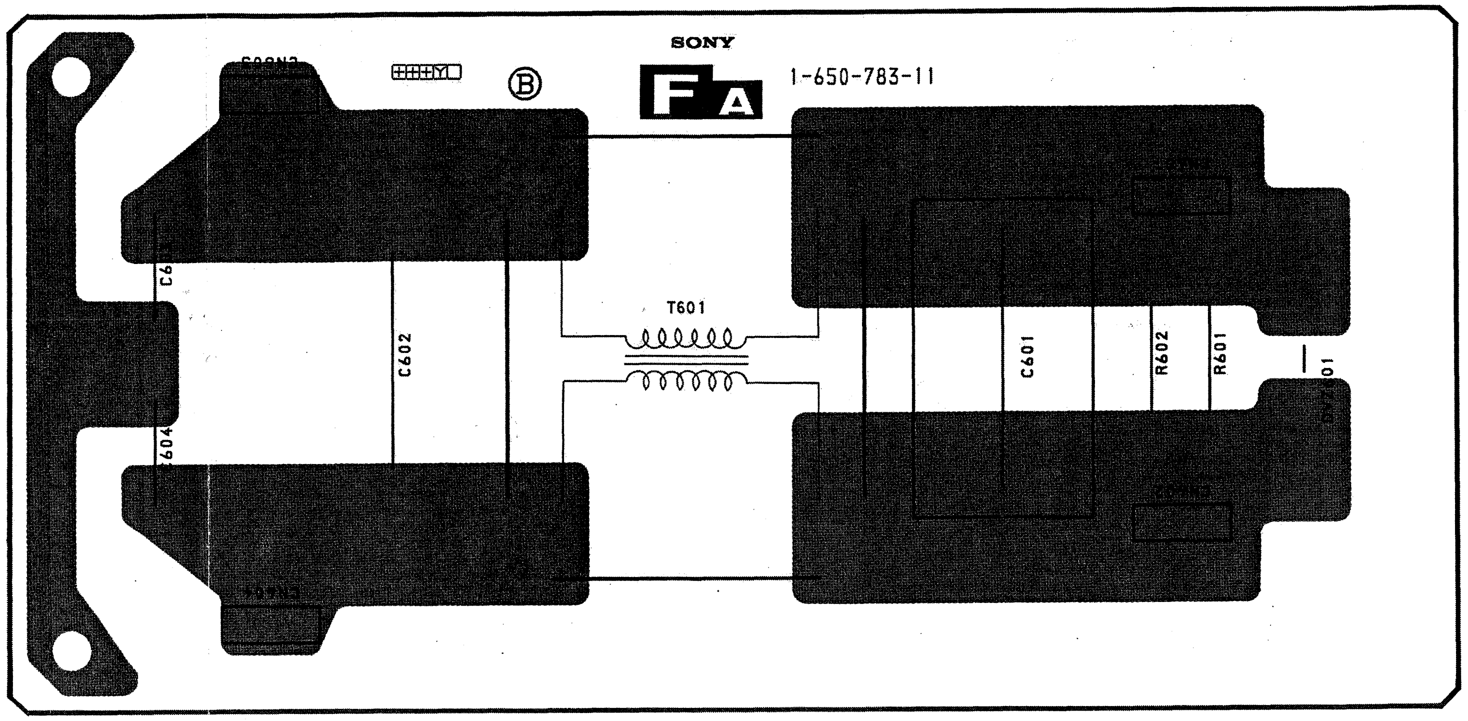
DIODE	
D902	B-5
D903	B-1
D905	C-2
D908	B-4

FA [LINE FILTER]

VPL-350Q/351Q ONLY


1
2
3
4
5
6
A
B
C
D
E
F
TO GA BOARD CN2
CN604
CN603
FA
OVZ601
ZNR-14DK471U
R601
470k
1/2W
R602
470k
1/2W
C601
1
250V
T601
C602
0.47
250V
C603
0.0015
250V
C604
0.0015
250V
CN602
CN601
B-SS1597<J..>-FA.
AC INLET
FUSE
F901
10A/125V
MAIN SW
AC IN
100-120V
50/60Hz

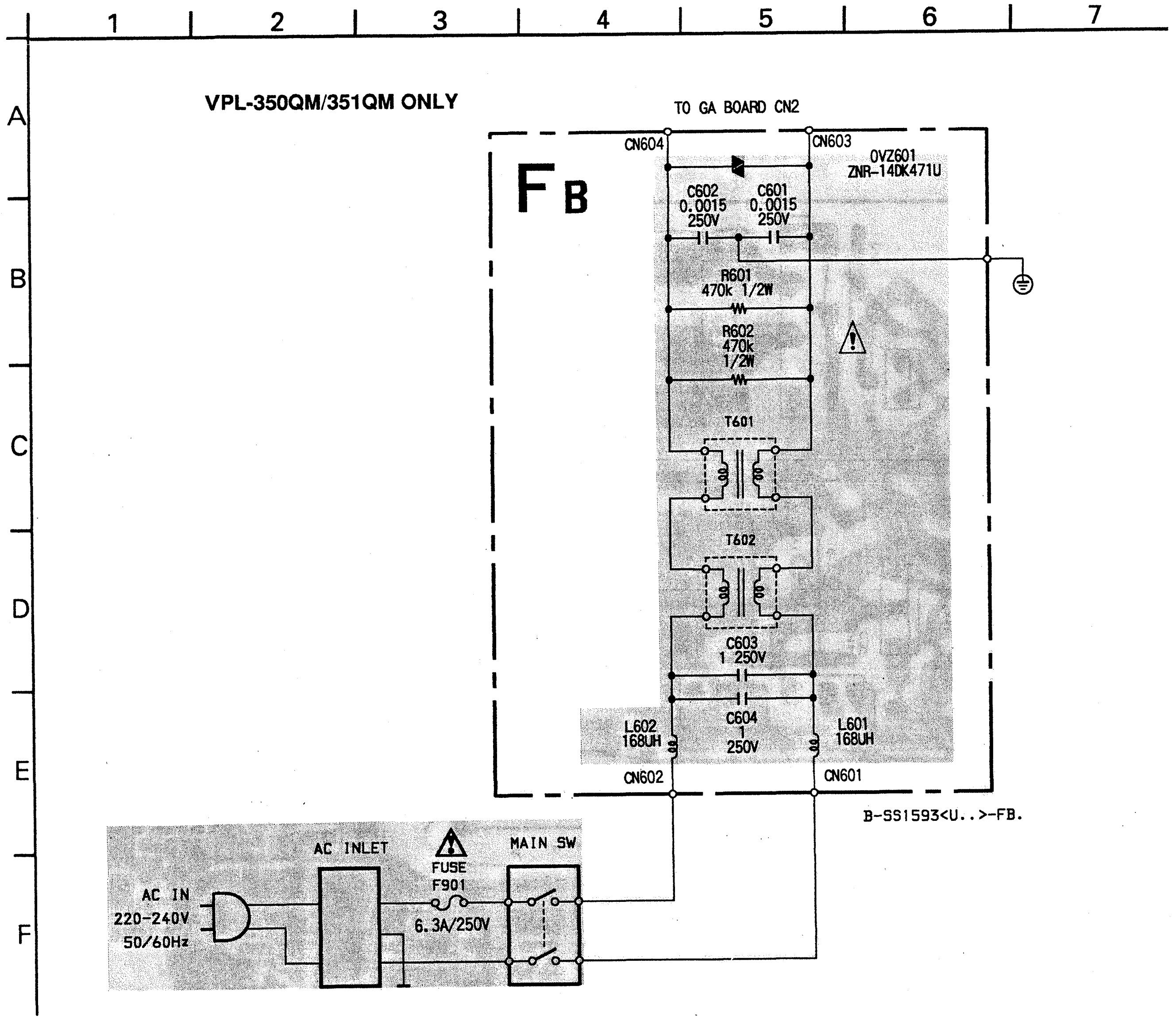
– FA BOARD – **VPL-350Q/351Q ONLY**


SONY
FA
1-650-783-11
T601
C602
C601
R602
R601
C6
C604

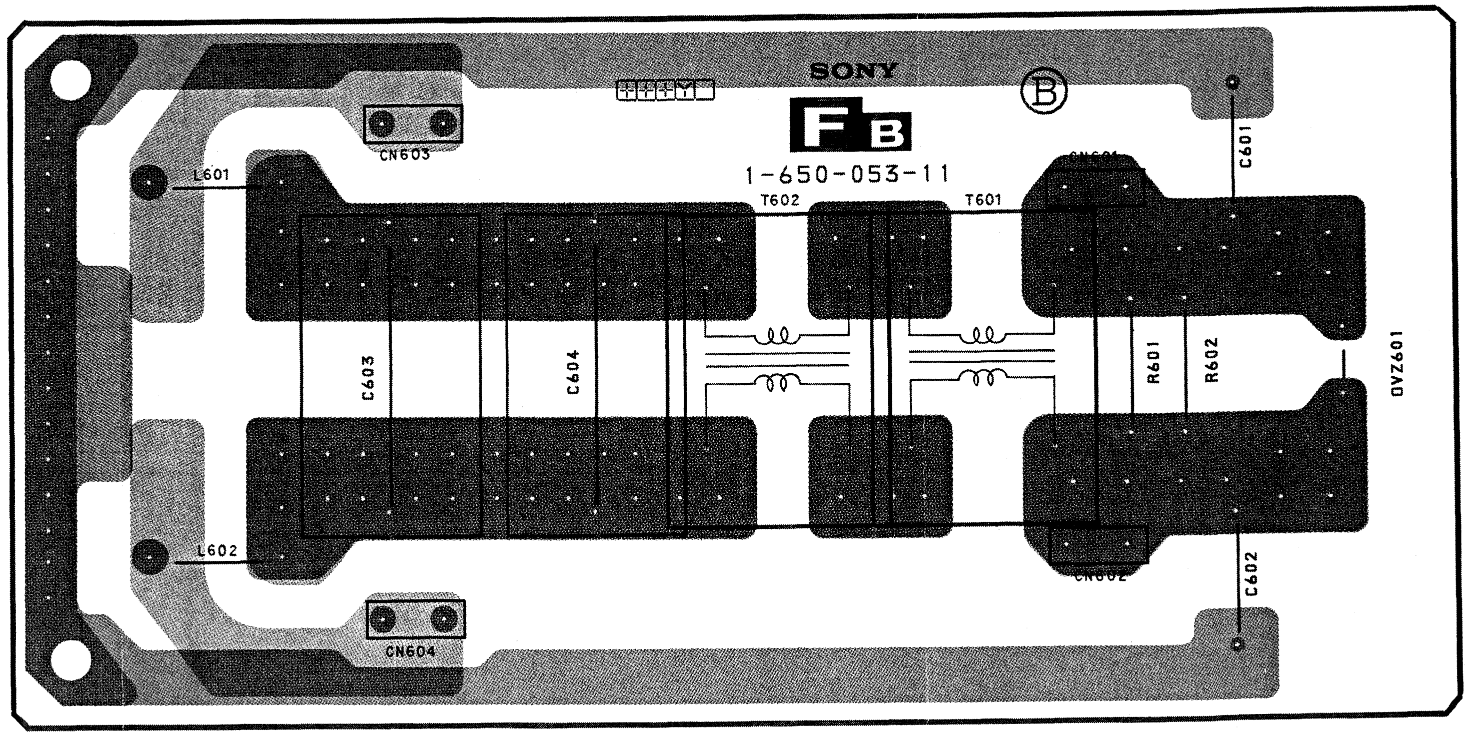
Note:
- ▨ : Pattern from the side which enables seeing.
- ■ : Pattern of the rear.

Schematic diagram
FA board ➡

FB [LINE FILTER]


1
2
3
4
5
6
7
A
B
C
D
E
F
VPL-350QM/351QM ONLY
TO GA BOARD CN2
FB
CN604
CN603
OVZ601
ZNR-14DK471U
C602
0.0015
250V
C601
0.0015
250V
R601
470k 1/2W
R602
470k
1/2W
T601
T602
C603
1 250V
C604
1
250V
L602
168UH
L601
168UH
CN602
CN601
B-SS1593<U..>-FB.
AC INLET
FUSE
F901
6.3A/250V
MAIN SW
AC IN
220-240V
50/60Hz

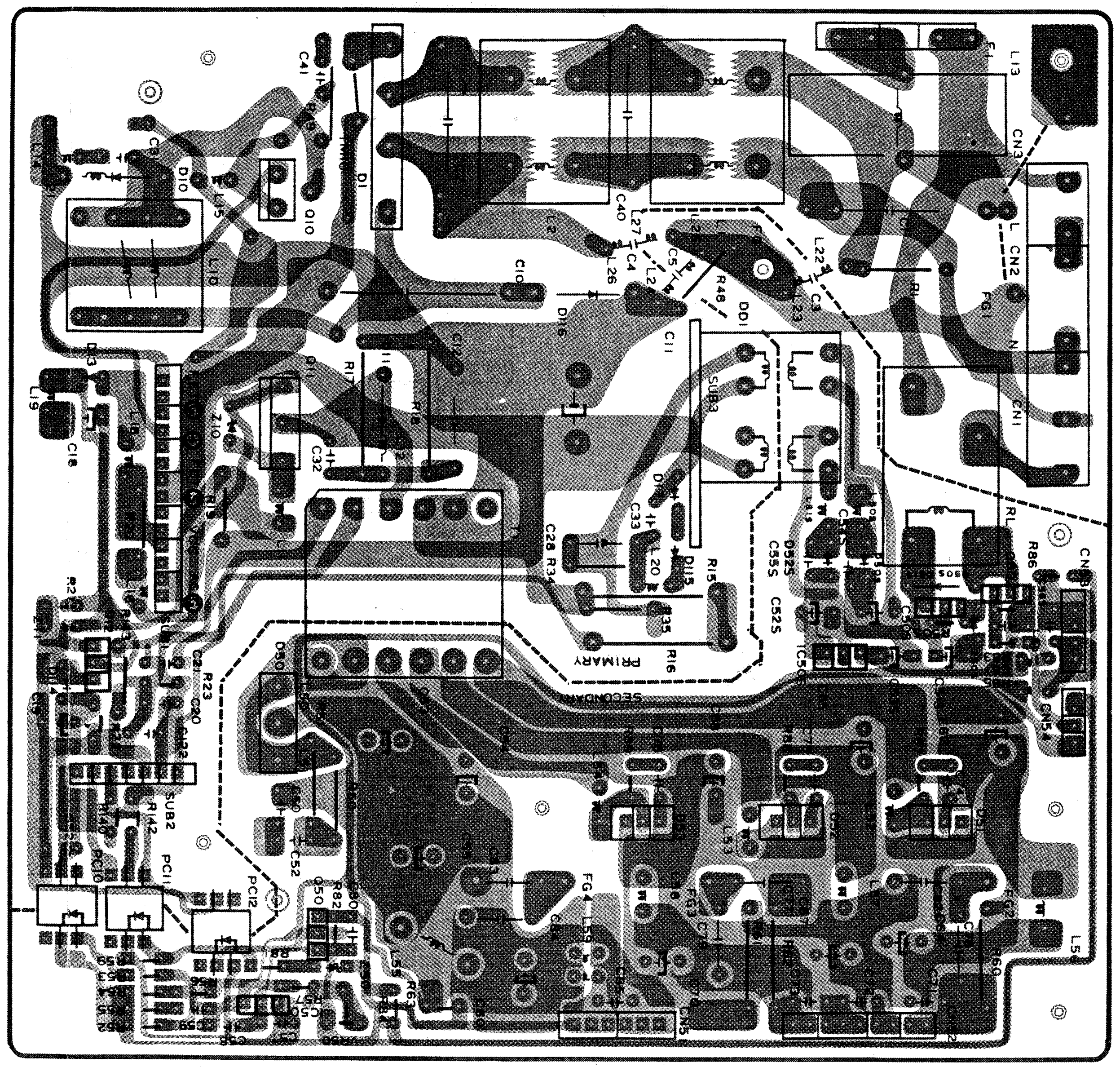
- FB BOARD - VPL-350QM/351QM ONLY


SONY
FB
B
1-650-053-11
CN603
CN604
CN601
CN602
L601
L602
T602
T601
C601
C602
C603
C604
R601
R602
OVZ601

Note:
- ▨ : Pattern from the side which enables seeing.
- ▩ : Pattern of the rear.

GA [POWER CIRCUIT]

– GA BOARD –

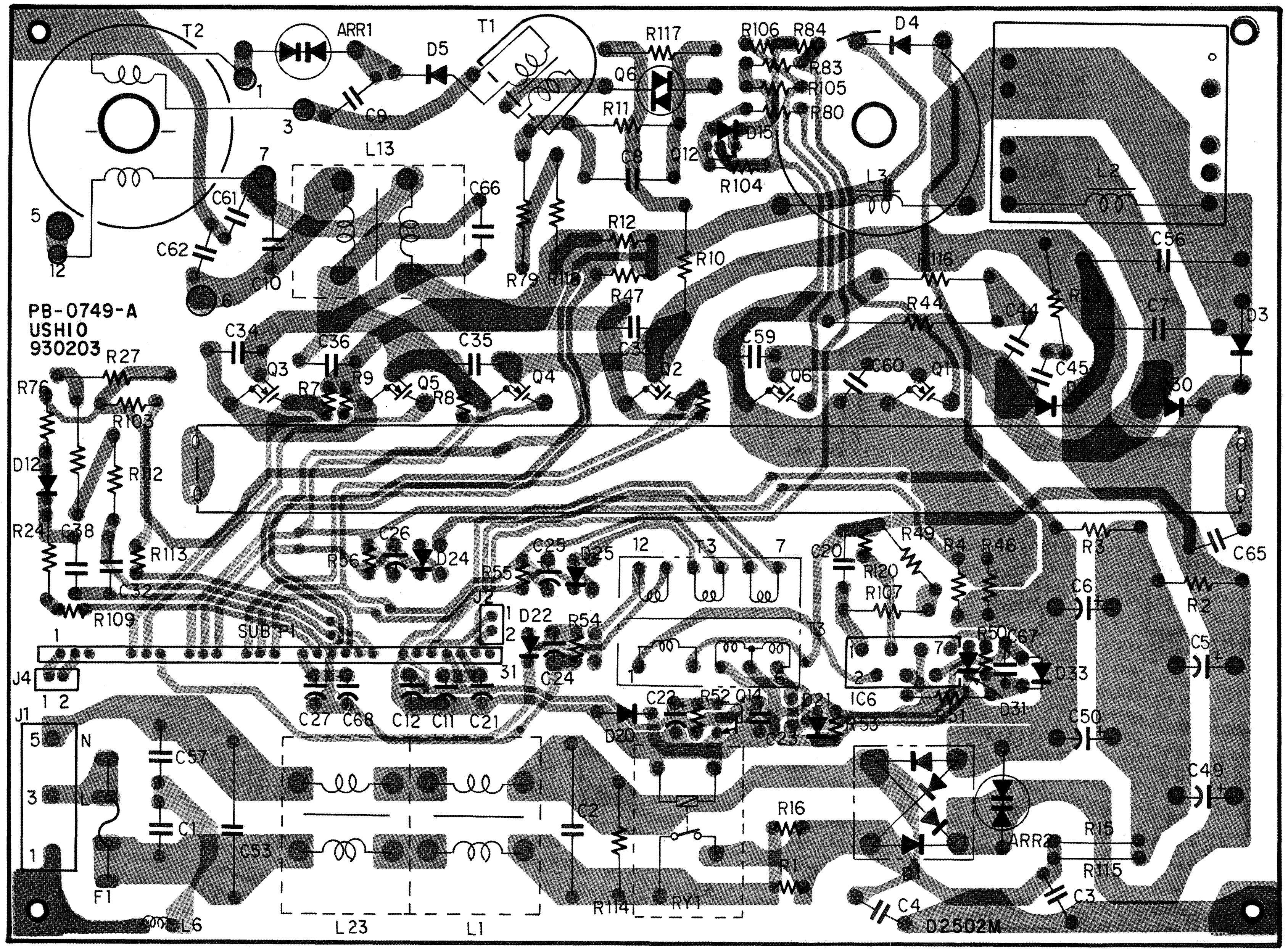

PRIMARY
SECONDARY
CN1
CN2
CN3
CN5
CN54
F1
FG1
FG3
FG4
L13
L20
L22
L26
L27
L53
D1
D10
D16
D50
Q10
Q50
C11
C12
C18
C23
C28
C32
C33
C40
C41
C52
R16
R17
R18
R23
R35
R48
R63
R86
SUB2
SUB3
PC11
PC12
IC50

Note:
- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear.

Schematic diagram
← F B **board**

GB [LAMP POWER]

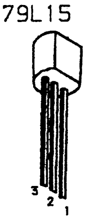
– GB BOARD –


T2
ARR1
T1
R117
R106
R84
D4
D5
Q6
R83
R105
R80
C9
R11
D15
L13
C8
Q12
R104
C66
L3
L2
C61
C62
C10
R12
R10
R116
C56
R79
R113
R47
R44
C44
D3
C7
PB-0749-A
USHIO
930203
C34
C36
C35
C33
C59
C60
C45
R27
Q3
R9
Q5
Q4
Q2
Q6
Q1
R76
R7
R8
R103
D12
R102
R24
C38
C26
D24
C25
D25
T3
C20
R49
R4
R46
R3
C65
R113
R56
R55
R120
R107
C6
R2
C32
R109
J2
D22
R54
R50
C67
C5
SUB P1
C24
IC6
D33
J4
R52
Q14
D21
R51
D31
J1
C27
C68
C12
C11
C21
C22
D20
C23
R53
C50
N
C57
C49
L
C2
R16
C1
ARR2
C53
R1
R15
R115
F1
R114
RY1
C4
C3
L6
L23
L1
D2502M

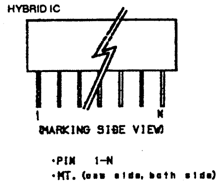
Note:
•▨ : Pattern from the side which enables seeing.
•▨ : Pattern of the rear.

5-5. SEMICONDUCTORS

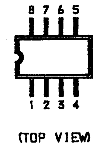
AN79L15



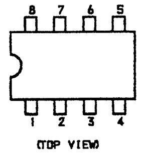
BX8305
BX-6475
BX-7913
BX-8304
BW8319A


HYBRID IC
1
N
MARKING SIDE VIEW
·PIN 1-N
·MT. (one side, both side)

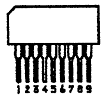
CXA1450M
MB3773PF
NJM2228M
TL082CPS
UPC393G2
UPC814G2


8 7 6 5
1 2 3 4
(TOP VIEW)

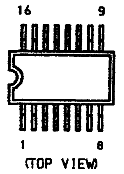
CX-7916


8 7 6 5
1 2 3 4
(TOP VIEW)

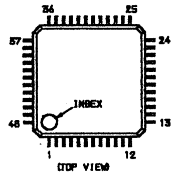
CX-894
UPC1406HA



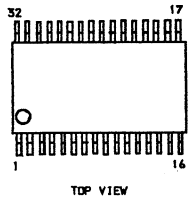
CXA1451M
HD14053FP
MC14053BF
MC74HC4053F
MC74HC4538AF
M62353GP
SN74HC157ANS
SN74HC175ANS
TC74HC109AF
TC74HC4511AF
TDA4555/V1
74F157ASJ


16
9
1
8
(TOP VIEW)

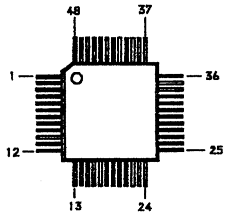
CXD101-111Q
CXD101-108Q


36
25
37
24
INDEX
48
13
1
12
(TOP VIEW)

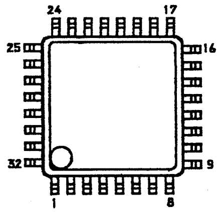
CXD1176Q


32
17
1
16
TOP VIEW

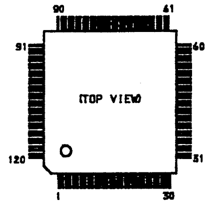
CXD1178Q


48
37
1
36
12
25
13
24

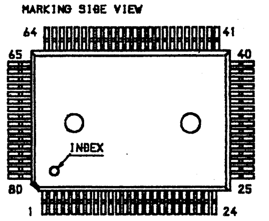
CXD1179Q


24
17
25
16
32
9
1
8

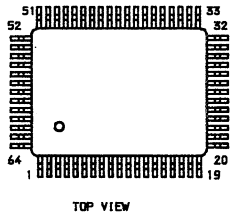
CXD206-107Q
CXD206-110Q
CXD206-115Q


90
61
91
60
(TOP VIEW)
120
31
1
30

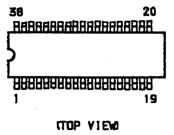
CXD206-113Q


MARKING SIDE VIEW
64
41
65
40
INDEX
80
25
1
24

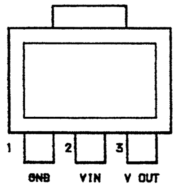
CXD2308Q
CXK48324Q
MB654842UPF


51
33
52
32
64
20
1
19
TOP VIEW

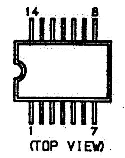
CXK1206AM


38
20
1
19
(TOP VIEW)

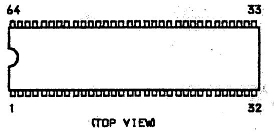
CX20125
CX23065A


1
2
3
GND
VIN
V OUT

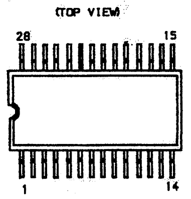
CY7C245A-25SC
HD74HC00FPEL
MC74F125M
MC74HC126ANS
SN74AS1004ANS
SN74AS1034ANS
SN74HC00ANS
SN74HC10ANS
SN74HC125ANS
TC74VHC04F
TC74VHC14F
TC74VHCU04F
TL084CNS
UPC339G2
XRU4066BF


14
8
1
7
(TOP VIEW)

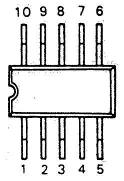
HD6473256P10


64
33
1
32
(TOP VIEW)

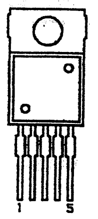
HM63021FP


(TOP VIEW)
28
15
1
14

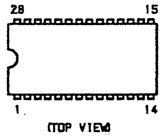
M6M80041FP


10 9 8 7 6
1 2 3 4 5

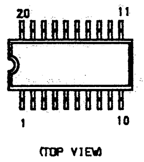
MC14538BF



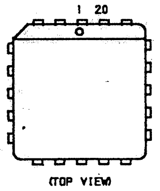
MC68HC05P7B


28
15
1
14
(TOP VIEW)

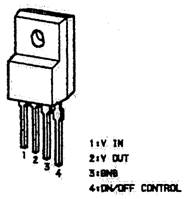
MC74HC175F
TC74VHC244F
74AC574SJ
UPD6451AGT-630


20
11
1
10
(TOP VIEW)

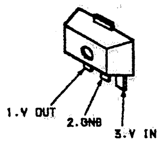
PALCE16V8H-10VPL1


1 20
(TOP VIEW)

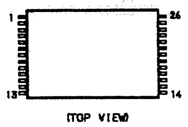
PQ05RF11
PQ05RF14
PQ12RF11


1
2
3
4
1:V IN
2:V OUT
3:GND
4:ON/OFF CONTROL

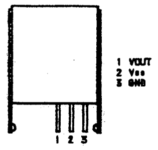
RH5VA43AA


1.V OUT
2.GND
3.V IN

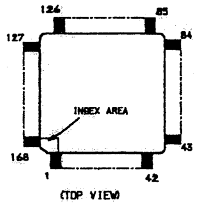
SBX1745-01


1
26
13
14
(TOP VIEW)

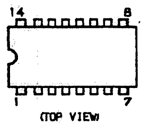
SBX1780-51


1 VOUT
2 Vss
3 GND
1 2 3

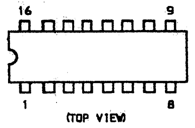
SNY-3076
SNY-3077


124
85
127
84
INDEX AREA
168
43
1
42
(TOP VIEW)

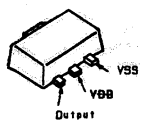
SN74LS26NS
74F08SJ


14
8
1
7
(TOP VIEW)

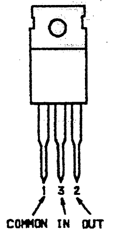
SN74S124N
TC74HC595AF


16
9
1
8
(TOP VIEW)

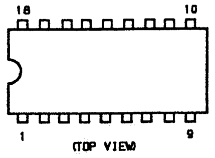
TA78L10F


VSS
VDD
Output

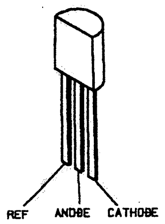
TA79005S
TA79012S


1 3 2
COMMON IN OUT

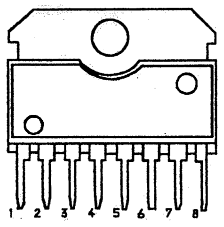
TDA2579B


18
10
1
9
(TOP VIEW)

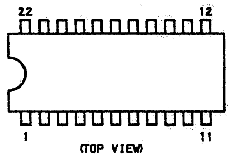
TL431CLP


REF
ANODE
CATHODE

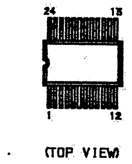
UPC1241H



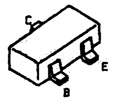
UPC1377C


22
12
1
11
(TOP VIEW)

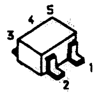
UPD42102G-3


24
13
1
12
(TOP VIEW)

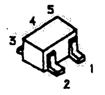
DTC144EK
2SA1162-YG
2SA1162-G
2SA1462-Y33
2SA812-M5M6
2SC1623-L5L6
2SC2712-YG
2SC3545-T42



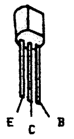
FMS2



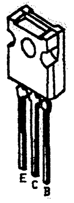
FMW5



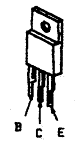
2SA1208-T
2SC2910-T
2SD789-S



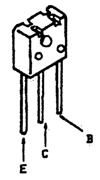
2SB1142-T



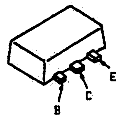
2SC3692



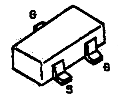
2SD1682-T



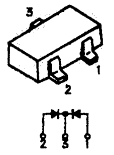
2SD999



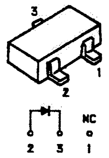
2SK160-K6



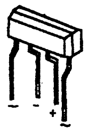
1S2837



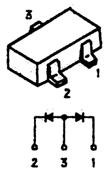
RD3.3M-B2
RD4.3M-B1
RD5.1M-B2
RD6.2M-B1
1SS184



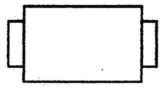
1SS123
1SS226



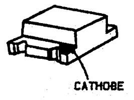
1S2835



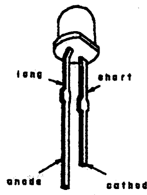
SEC1201C
SEC1801C



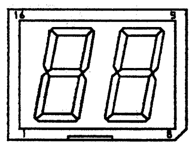
SEC2422C



SEL6210S


long
short
anode
cathode

TLR320



SECTION 6
EXPLODED VIEWS

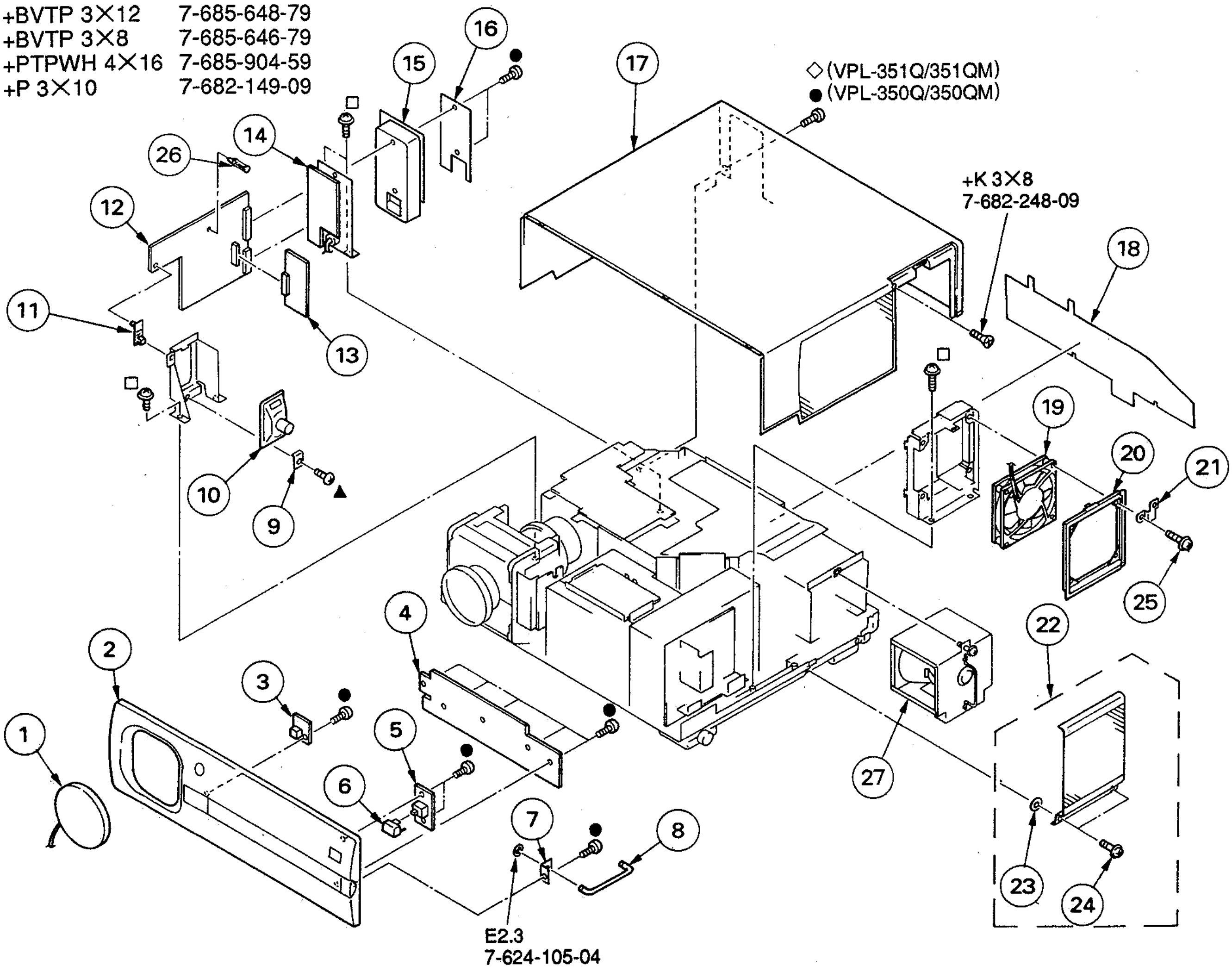
NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ∗ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

6-1. COVER AND FRONT PANEL

●: +BVTP 3X12 7-685-648-79
▲: +BVTP 3X8 7-685-646-79
□: +PTPWH 4X16 7-685-904-59
◇: +P 3X10 7-682-149-09



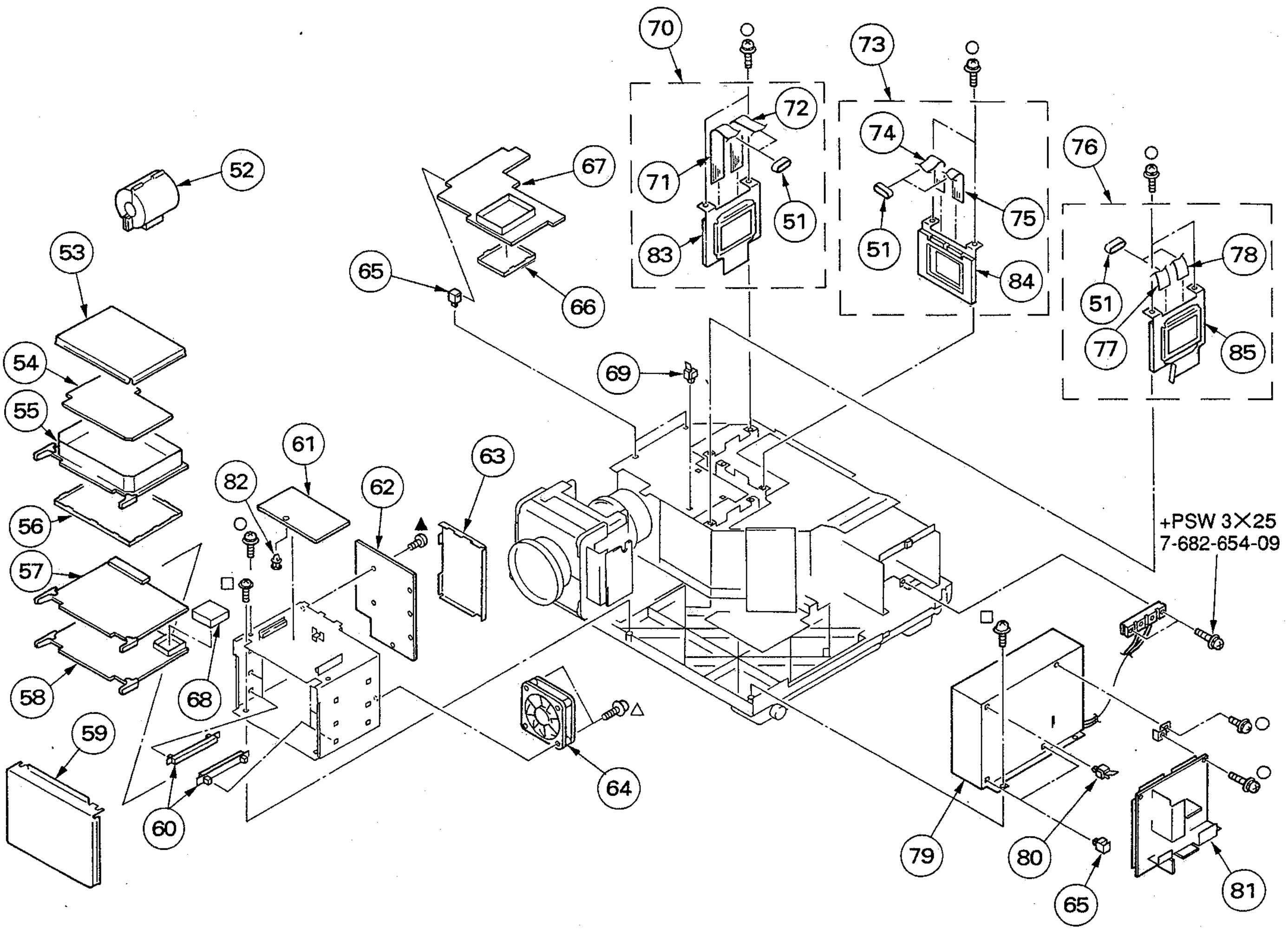
REF.NO.	PART NO.	DESCRIPTION	REMARK
1	4-043-330-01	CAP, LENS	
2	X-4031-645-1	PANEL ASSY, FRONT	(VPL-350QM)
	X-4031-782-1	PANEL ASSY, FRONT	(VPL-350Q)
	X-4032-462-1	PANEL ASSY, FRONT	(VPL-351QM)
	X-4032-505-1	PANEL ASSY, FRONT	(VPL-351Q)
3	∗A-1375-141-A	H3 BOARD, COMPLETE	
4	∗A-1375-139-A	H1 BOARD, COMPLETE	
5	∗A-1375-140-A	H2 BOARD, COMPLETE	
6	4-043-328-01	BUTTON, POWER	
7	∗4-043-305-01	STOPPER (A)	
8	4-043-319-01	SHAFT	
9	4-383-026-01	SPRING	
10	1-503-255-00	SPEAKER	
11	∗3-701-832-00	HINGE, CIRCUIT BOARD	
12	∗A-1275-115-A	QB BOARD, COMPLETE	
13	∗A-1275-116-A	QB1 BOARD, COMPLETE	
14	1-537-698-11	TERMINAL BOARD ASSY, I/O (QA BOARD)	
15	4-043-369-01	PANEL, CONNECTOR	
16	4-043-354-01	SHEET, CONNECTOR	
17	4-043-362-01	HOOD	
18	∗4-043-875-01	PLATE (B), LIGHT INTERCEPTION	
19	1-698-365-11	FAN, DC	
20	∗4-043-363-01	DUCT, FAN	
21	∗4-044-586-01	BRACKET, HOOD	
22	X-4031-640-1	DOOR ASSY, LAMP	23,24
23	4-033-712-01	WASHER	
24	4-033-713-01	SCREW (+PWH M4X10), PREVENTION	
25	4-306-021-11	SCREW (WASHER HEAD) (+P 4X35)	
26	3-687-542-11	SPACER, PC BOARD SPACE	
27	⚠1-517-311-11	LAMP UNIT, METAL HALIDE (250W)	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

6-2. CHASSIS

▲: +BVTP 3×8 7-685-646-79
○: +PSW 3×8 7-682-948-01
□: +PTPWH 4×16 7-685-904-59
△: +PSW 4×30 7-682-668-09



REF.NO.	PART NO.	DESCRIPTION	REMARK
51	1-500-153-11	BEAD, FERRITE	
52	1-543-993-11	CORE, FERRITE	
53	*4-043-343-01	CASE (UPPER LID), SHIELD, BC	
54	*A-1135-774-A	BD BOARD, COMPLETE	
55	*A-1135-773-A	BC BOARD, COMPLETE	
56	*4-043-355-01	CASE (LID BOTTOM), SHIELD, BC	
57	*A-1135-772-A	BB BOARD, COMPLETE	
58	*A-1135-771-A	BA BOARD, COMPLETE	(VPL-350Q/350QM)
	*A-1135-816-A	BA BOARD, COMPLETE	(VPL-351Q/351QM)
59	*4-043-339-01	COVER (B), SHIELD	
60	*4-360-309-11	SUPPORT, PC BOARD	
61	*A-1375-142-A	H4 BOARD, COMPLETE	
62	*A-1135-770-A	BM BOARD, COMPLETE	
63	4-043-340-03	COVER (BM), SHIELD	
64	1-698-342-11	FAN, DC	
65	*3-701-903-11	HOLDER, PC BOARD	
66	*4-043-338-01	CASE, (BOTTOM LID), SHIELD, C	
67	*A-1335-050-A	C BOARD, COMPLETE	
68	*4-044-228-01	CASE (UPPER LID), SHIELD, BA	
69	*4-321-929-00	HOLDER, PC BOARD	
70	A-1500-856-A	PANEL (B) COMPLETE ASSY	51,71,72
71	1-769-160-31	FFC (WITH SHIELD)	
72	1-769-159-31	FFC (WITH SHIELD)	
73	A-1500-854-A	PANEL (G) COMPLETE ASSY	51,74,75
74	1-769-159-11	FFC (WITH SHIELD)	
75	1-769-160-11	FFC (WITH SHIELD)	
76	A-1500-852-A	PANEL (R) COMPLETE ASSY	51,77,78
77	1-769-160-21	FFC (WITH SHIELD)	
78	1-769-159-21	FFC (WITH SHIELD)	
79	⚠1-413-944-11	GB BOARD (POWER, LAMP)	(VPL-350Q/351Q)
	⚠1-413-944-21	GB BOARD (POWER, LAMP)	(VPL-350QM/351QM)
80	*3-703-141-00	HOLDER, PCB	
81	⚠1-413-943-11	GA BOARD (REG, SWIT.)	(VPL-350Q/351Q)
	⚠1-413-943-21	GA BOARD (REG, SWIT.)	(VPL-350QM/351QM)
82	3-682-057-11	SPACER (SMALL)	
83	*9-908-878-01	LCD HOLDER (B)	
84	*9-908-879-01	LCD HOLDER (G)	
85	*9-908-880-01	LCD HOLDER (R)	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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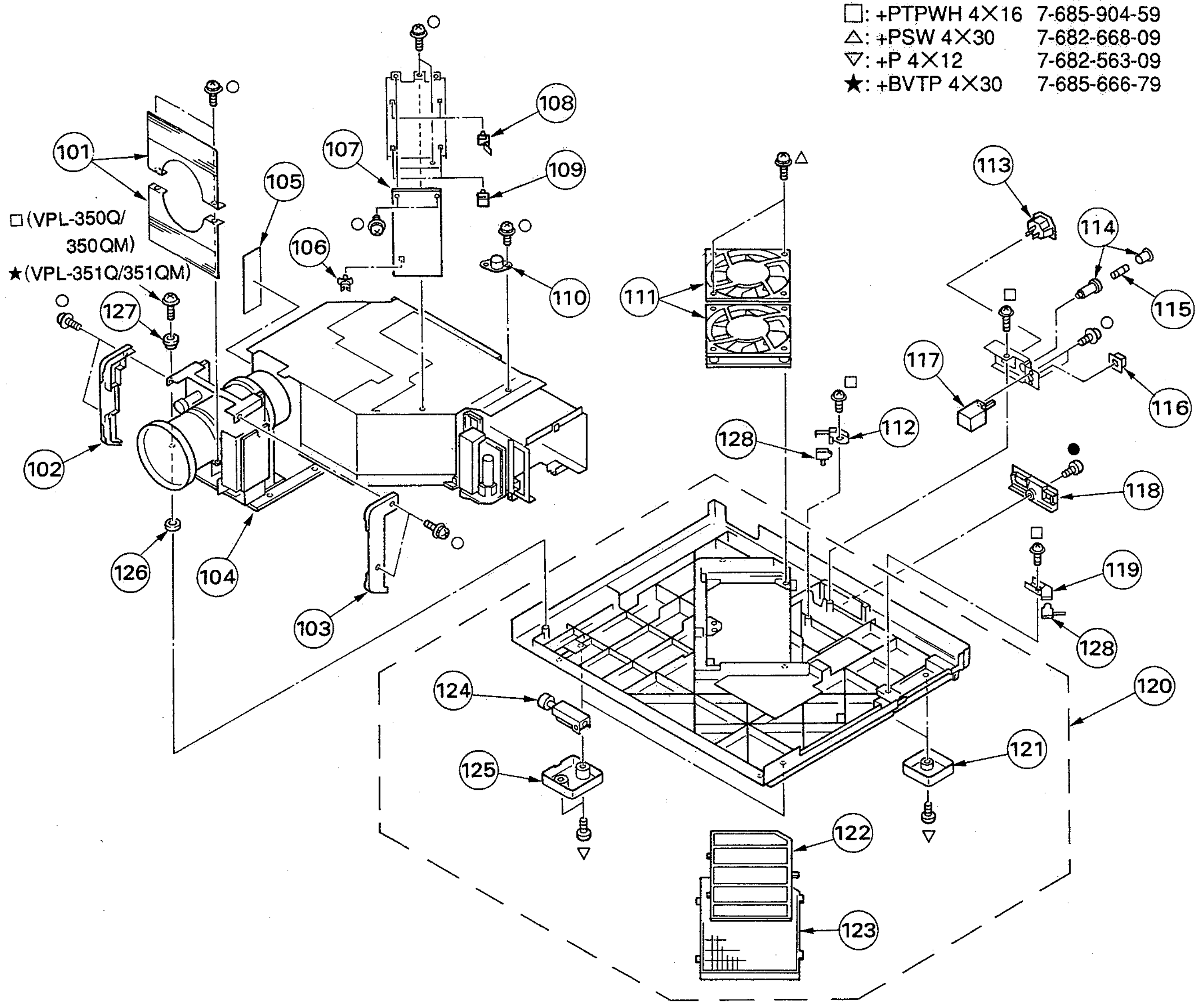
Ne les remplacer que par une piece portant le numero specifie.

6-3. PROJECTION UNIT AND BASE

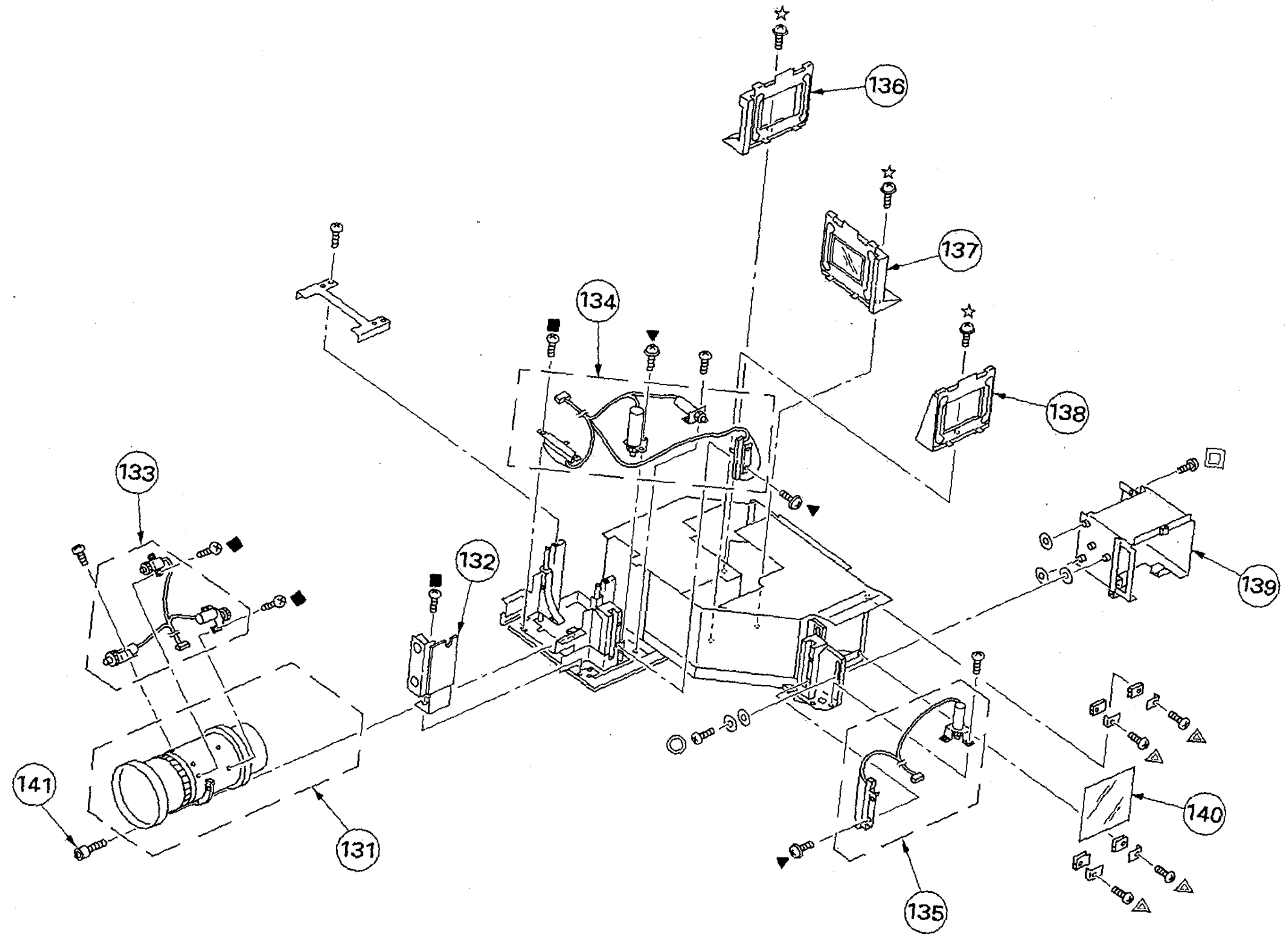
●	+BVTP 3×12	7-685-648-79
○	+PSW 3×8	7-682-948-01
□	+PTPWH 4×16	7-685-904-59
△	+PSW 4×30	7-682-668-09
▽	+P 4×12	7-682-563-09
★	+BVTP 4×30	7-685-666-79



REF.NO.	PART NO.	DESCRIPTION	REMARK
101	4-043-342-01	MASK	
102	*4-043-357-01	HOLDER (L), MASK	
103	*4-043-358-01	HOLDER (R), MASK	
104	1-467-555-14	PROJECTION UNIT	
105	*4-043-874-01	PLATE (S), LIGHT INTERCEPTION	
106	*3-644-407-00	CLIP, AC WIRE E	
107	*A-1241-134-A	FA BOARD, COMPLETE	(VPL-350Q/351Q)
	A-1241-129-A	FB BOARD, COMPLETE	(VPL-350QM/351QM)
108	*4-321-929-00	HOLDER, PC BOARD	
109	*3-701-903-11	HOLDER, PC BOARD	
110	1-533-424-11	THERMOSTAT	
111	1-698-341-11	FAN, DC	
112	*4-043-336-01	BRACKET, SWITCH (R)	
113	⚠ 1-526-954-11	INLET, AC	
114	1-533-423-11	HOLDER, FUSE	
115	⚠ 1-576-233-11	FUSE(H.B.C) 6.3A/250V	(VPL-350QM/351QM)
	⚠ 1-576-048-11	FUSE,GLASS TUBE 10A/125V	(VPL-350Q/351Q)
116	4-362-811-00	BUTTON, MAIN POWER	
117	⚠ 1-572-067-21	SWITCH, PUSH (1 KEY)(AC POEWR)	(VPL-350QM/351QM)
	⚠ 1-572-067-11	SWITCH, PUSH (1 KEY)(AC POEWR)	(VPL-350Q/351Q)
118	4-043-344-01	COVER, AC	
119	*4-043-325-01	HOLDER, SWITCH	
120	*X-4031-644-4	BASE ASSY	121~125
121	4-043-335-01	FOOT (RE)	
122	4-043-359-01	FILTER	
123	4-043-367-01	COVER, FILTER	
124	4-043-324-01	ADJUSTOR	
125	4-043-352-01	FOOT (FR)	
126	*4-047-004-01	SPACER (B), SHOCK ABSORBING	(VPL-351Q/351QM)
127	*4-047-003-01	SPACER (A), SHOCK ABSORBING	(VPL-351Q/351QM)
128	1-517-300-31	SWITCH, ROTARY	

6-4. PROJECTION UNIT

■	: +BVTP 3×6 (B)	7-685-645-29
◆	: +PTP 2.6×8 (B)	7-685-134-29
▼	: +PSW M3×6	7-682-947-01
☆	: +PSW M3×10	7-682-949-01
◎	: +P M3×6	7-682-147-01
▣	: +P M3×4	7-682-145-09
◬	: +P M3×8 (B)	7-682-148-09



REF. NO.	PART NO.	DESCRIPTION	REMARK
131	9-908-870-01	PROJECTION LENS	
132	9-908-871-01	AF UNIT	
133	9-908-872-01	ZOOM/FOCUS MOTOR ASSY	
134	9-908-873-01	X/Y SHAFT MOTOR ASSY	
135	9-908-874-01	LAMP MOTOR ASSY	
136	*9-908-875-01	LCD ADJUSTMENT ASSY (B)	
137	*9-908-876-01	LCD ADJUSTMENT ASSY (G)	
138	*9-908-877-01	LCD ADJUSTMENT ASSY (R)	
139	*9-908-881-01	LAMP HOUSE	
140	9-908-882-01	UV·IR CUT FILTER	
141	3-657-705-21	HEXAGON HOLED BOLT M4×15	

SECTION 7
ELECTRICAL PARTS LIST

BM **BB**

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF.NO.	PART NO.	DESCRIPTION	REMARK
	*A-1135-770-A	BM BOARD, COMPLETE ******************	
		<CAPACITOR>	
C1	1-124-779-00	ELECT 10MF 20% 16V	
		<CONNECTOR>	
CN1	*1-764-791-11	SOCKET, CONNECTOR 100P	
CN2	*1-764-791-11	SOCKET, CONNECTOR 100P	
CN3	*1-764-791-11	SOCKET, CONNECTOR 100P	
CN4	*1-564-511-11	PLUG, CONNECTOR 8P	
CN5	*1-564-514-11	PLUG, CONNECTOR 11P	
CN6	*1-564-507-11	PLUG, CONNECTOR 4P	
CN7	*1-564-509-11	PLUG, CONNECTOR 6P	
CN8	*1-564-516-11	PLUG, CONNECTOR 13P	
CN9	*1-564-512-11	PLUG, CONNECTOR 9P	
CN10	*1-564-509-11	PLUG, CONNECTOR 6P	
CN11	*1-564-515-11	PLUG, CONNECTOR 12P	
CN12	*1-564-512-11	PLUG, CONNECTOR 9P	
CN13	*1-564-509-11	PLUG, CONNECTOR 6P	
CN14	*1-564-508-11	PLUG, CONNECTOR 5P	
CN15	*1-564-512-11	PLUG, CONNECTOR 9P	
CN17	*1-564-506-11	PLUG, CONNECTOR 3P	
CN18	*1-564-506-11	PLUG, CONNECTOR 3P	
		<FILTER>	
FL1	1-235-096-00	FILTER, LINE	
FL2	1-235-096-00	FILTER, LINE	
FL3	1-235-096-00	FILTER, LINE	
FL4	1-235-096-00	FILTER, LINE	
FL5	1-235-096-00	FILTER, LINE	
FL6	1-239-035-11	FILTER, EMI (CHIP)	
FL7	1-239-036-11	FILTER, EMI (CHIP)	
FL8	1-239-036-11	FILTER, EMI (CHIP)	
FL9	1-239-036-11	FILTER, EMI (CHIP)	
FL10	1-239-035-11	FILTER, EMI (CHIP)	
FL11	1-239-035-11	FILTER, EMI (CHIP)	
FL12	1-239-035-11	FILTER, EMI (CHIP)	
FL13	1-239-035-11	FILTER, EMI (CHIP)	
FL14	1-239-035-11	FILTER, EMI (CHIP)	
FL15	1-239-035-11	FILTER, EMI (CHIP)	
FL16	1-239-036-11	FILTER, EMI (CHIP)	
FL17	1-239-035-11	FILTER, EMI (CHIP)	
FL18	1-239-035-11	FILTER, EMI (CHIP)	
FL19	1-239-035-11	FILTER, EMI (CHIP)	
FL20	1-239-035-11	FILTER, EMI (CHIP)	
FL21	1-239-035-11	FILTER, EMI (CHIP)	

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<TRANSISTOR>	
Q1	8-729-230-49	TRANSISTOR 2SC2712-YG	
		<RESISTOR>	
R1	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R2	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
		<SWITCH>	
S1	1-692-946-11	SWITCH, THERMAL REED	
**			
	*A-1135-772-A	BB BOARD, COMPLETE ******************	
		<FILTER>	
BP2001	1-236-366-11	MODULE, TRAP	
BP2002	1-236-365-11	MODULE, TRAP	
		<CAPACITOR>	
C2001	1-126-204-11	ELECT 47MF 20% 16V	
C2002	1-126-204-11	ELECT 47MF 20% 16V	
C2004	1-126-204-11	ELECT 47MF 20% 16V	
C2005	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C2006	1-126-204-11	ELECT 47MF 20% 16V	
C2007	1-135-216-11	TANTAL. CHIP 10MF 20% 10V	
C2009	1-163-038-91	CERAMIC CHIP 0.1MF 25V	
C2010	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C2011	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C2012	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C2013	1-164-161-11	CERAMIC CHIP 0.0022MF 50V	
C2014	1-163-109-00	CERAMIC CHIP 47PF 5% 50V	
C2015	1-163-093-00	CERAMIC CHIP 10PF 5% 50V	
C2016	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C2017	1-163-031-11	CERAMIC CHIP 0.01MF 50V	
C2019	1-163-038-91	CERAMIC CHIP 0.1MF 25V	
C2020	1-163-035-00	CERAMIC CHIP 0.047MF 50V	
C2021	1-163-119-00	CERAMIC CHIP 120PF 5% 50V	
C2022	1-163-245-11	CERAMIC CHIP 56PF 5% 50V	
C2023	1-163-031-11	CERAMIC CHIP 0.01MF 50V	
C2024	1-128-399-11	ELECT 330MF 20% 16V	
C2025	1-128-399-11	ELECT 330MF 20% 16V	
C2026	1-163-119-00	CERAMIC CHIP 120PF 5% 50V	
C2029	1-163-241-11	CERAMIC CHIP 39PF 5% 50V	
C2030	1-163-099-00	CERAMIC CHIP 18PF 5% 50V	
C2031	1-163-125-00	CERAMIC CHIP 220PF 5% 50V	

BB

REF.NO.	PART NO.	DESCRIPTION			REMARK
C2032	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C2033	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C2034	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C2035	1-104-551-11	FILM CHIP	0.01MF	5%	16V
C2036	1-163-033-91	CERAMIC CHIP	0.022MF		50V
C2037	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C2038	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C2039	1-104-563-11	FILM CHIP	0.1MF	5%	16V
C2040	1-104-547-11	FILM CHIP	0.0047MF	5%	16V
C2041	1-104-555-11	FILM CHIP	0.022MF	5%	16V
C2042	1-104-555-11	FILM CHIP	0.022MF	5%	16V
C2043	1-135-155-21	TANTAL. CHIP	4.7MF	20%	16V
C2044	1-135-091-91	TANTAL. CHIP	1MF	20%	16V
C2045	1-163-119-00	CERAMIC CHIP	120PF	5%	50V
C2046	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2047	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2048	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C2049	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2050	1-135-216-11	TANTAL. CHIP	10MF	20%	10V
C2051	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2052	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2053	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2054	1-104-555-11	FILM CHIP	0.022MF	5%	16V
C2055	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2056	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2057	1-163-224-11	CERAMIC CHIP	7PF	0.25PF	50V
C2058	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2059	1-135-155-21	TANTAL. CHIP	4.7MF	20%	16V
C2060	1-126-204-11	ELECT	47MF	20%	16V
C2061	1-126-204-11	ELECT	47MF	20%	16V
C2062	1-126-204-11	ELECT	47MF	20%	16V
C2063	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2064	1-135-216-11	TANTAL. CHIP	10MF	20%	10V
C2065	1-126-204-11	ELECT	47MF	20%	16V
C2066	1-126-204-11	ELECT	47MF	20%	16V
C2067	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2068	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C2069	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2070	1-135-216-11	TANTAL. CHIP	10MF	20%	10V
C2083	1-126-204-11	ELECT	47MF	20%	16V
C2084	1-135-216-11	TANTAL. CHIP	10MF	20%	10V
C2085	1-163-249-11	CERAMIC CHIP	82PF	5%	50V
C2087	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2088	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C2090	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C2095	1-126-204-11	ELECT	47MF	20%	16V
C2096	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2097	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2098	1-126-204-11	ELECT	47MF	20%	16V
C2099	1-126-204-11	ELECT	47MF	20%	16V
C2100	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2101	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2102	1-126-204-11	ELECT	47MF	20%	16V
C2103	1-124-779-00	ELECT	10MF	20%	16V
C2108	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2109	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2112	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2114	1-124-779-00	ELECT	10MF	20%	16V
C2115	1-126-204-11	ELECT	47MF	20%	16V
C2116	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2120	1-126-204-11	ELECT	47MF	20%	16V
C2121	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2122	1-135-091-91	TANTAL. CHIP	1MF	20%	16V
C2124	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2125	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2127	1-126-204-11	ELECT	47MF	20%	16V
C2128	1-126-204-11	ELECT	47MF	20%	16V
C2129	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C2130	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2131	1-124-779-00	ELECT	10MF	20%	16V
C2134	1-124-779-00	ELECT	10MF	20%	16V
C2136	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2137	1-126-204-11	ELECT	47MF	20%	16V
C2138	1-126-204-11	ELECT	47MF	20%	16V
C2139	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2140	1-135-216-11	TANTAL. CHIP	10MF	20%	10V
C2141	1-124-779-00	ELECT	10MF	20%	16V
C2142	1-124-779-00	ELECT	10MF	20%	16V
C2143	1-126-204-11	ELECT	47MF	20%	16V
C2144	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2145	1-163-089-00	CERAMIC CHIP	6PF	0.25PF	50V
C2146	1-135-216-11	TANTAL. CHIP	10MF	20%	10V
C2147	1-136-177-00	FILM	1MF	5%	50V
C2148	1-104-563-11	FILM CHIP	0.1MF	5%	16V
C2186	1-126-193-11	ELECT	1MF	20%	50V
C2191	1-126-193-11	ELECT	1MF	20%	50V
C2198	1-126-193-11	ELECT	1MF	20%	50V
C2203	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2204	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2205	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2208	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2209	1-135-216-11	TANTAL. CHIP	10MF	20%	10V
C2210	1-124-779-00	ELECT	10MF	20%	16V
C2211	1-128-416-11	ELECT CHIP	100MF	20%	16V
C2212	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2216	1-104-563-11	FILM CHIP	0.1MF	5%	16V
C2217	1-104-563-11	FILM CHIP	0.1MF	5%	16V
C2218	1-104-563-11	FILM CHIP	0.1MF	5%	16V
C2219	1-124-779-00	ELECT	10MF	20%	16V
C2222	1-126-204-11	ELECT	47MF	20%	16V
C2224	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2225	1-126-204-11	ELECT	47MF	20%	16V
C2226	1-126-204-11	ELECT	47MF	20%	16V
C2227	1-126-204-11	ELECT	47MF	20%	16V
C2228	1-124-779-00	ELECT	10MF	20%	16V
C2229	1-124-779-00	ELECT	10MF	20%	16V
C2230	1-124-779-00	ELECT	10MF	20%	16V
C2231	1-126-395-11	ELECT	22MF	20%	16V
C2232	1-126-395-11	ELECT	22MF	20%	16V
C2233	1-126-395-11	ELECT	22MF	20%	16V
C2234	1-126-395-11	ELECT	22MF	20%	16V
C2235	1-126-395-11	ELECT	22MF	20%	16V
C2236	1-126-395-11	ELECT	22MF	20%	16V
C2238	1-126-204-11	ELECT	47MF	20%	16V
C2239	1-126-204-11	ELECT	47MF	20%	16V
C2240	1-126-204-11	ELECT	47MF	20%	16V
C2241	1-124-779-00	ELECT	10MF	20%	16V
C2242	1-124-779-00	ELECT	10MF	20%	16V
C2243	1-124-779-00	ELECT	10MF	20%	16V
C2244	1-135-216-11	TANTAL. CHIP	10MF	20%	10V
C2245	1-135-216-11	TANTAL. CHIP	10MF	20%	10V
C2246	1-135-216-11	TANTAL. CHIP	10MF	20%	10V
C2247	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2248	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C2249	1-126-204-11	ELECT	47MF	20%	16V
C2250	1-126-204-11	ELECT	47MF	20%	16V
C2251	1-126-204-11	ELECT	47MF	20%	16V

REF.NO.	PART NO.	DESCRIPTION				REMARK
C2252	1-126-204-11	ELECT	47MF	20%	16V	
C2253	1-126-204-11	ELECT	47MF	20%	16V	
C2254	1-126-204-11	ELECT	47MF	20%	16V	
C2255	1-124-779-00	ELECT	10MF	20%	16V	
C2256	1-124-779-00	ELECT	10MF	20%	16V	
C2257	1-124-779-00	ELECT	10MF	20%	16V	
C2258	1-135-216-11	TANTAL. CHIP	10MF	20%	10V	
C2259	1-135-216-11	TANTAL. CHIP	10MF	20%	10V	
C2260	1-135-216-11	TANTAL. CHIP	10MF	20%	10V	
C2261	1-135-216-11	TANTAL. CHIP	10MF	20%	10V	
C2262	1-135-216-11	TANTAL. CHIP	10MF	20%	10V	
C2263	1-135-216-11	TANTAL. CHIP	10MF	20%	10V	
C2264	1-135-216-11	TANTAL. CHIP	10MF	20%	10V	
C2267	1-135-091-91	TANTAL. CHIP	1MF	20%	16V	
C2268	1-135-091-91	TANTAL. CHIP	1MF	20%	16V	
C2269	1-135-091-91	TANTAL. CHIP	1MF	20%	16V	
C2270	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C2271	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C2272	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C2273	1-135-155-21	TANTAL. CHIP	4.7MF	20%	16V	

<CONNECTOR>

CN2001*	1-764-798-11	SOCKET, CONNECTOR 100P

<TRIMMER>

CT2001	1-141-181-11	CAP,TRIMMER
CT2002	1-141-181-11	CAP,TRIMMER

<DIODE>

D2001	8-719-105-99	DIODE RD6.2M-B1
D2002	8-719-801-78	DIODE 1SS184
D2003	8-719-801-78	DIODE 1SS184
D2004	8-719-801-78	DIODE 1SS184
D2005	8-719-801-78	DIODE 1SS184
D2007	8-719-801-78	DIODE 1SS184
D2009	8-719-801-78	DIODE 1SS184
D2010	8-719-104-34	DIODE 1S2836
D2011	8-719-801-78	DIODE 1SS184
D2012	8-719-801-78	DIODE 1SS184
D2013	8-719-104-34	DIODE 1S2836
D2014	8-719-801-78	DIODE 1SS184
D2015	8-719-801-78	DIODE 1SS184
D2016	8-719-801-78	DIODE 1SS184
D2017	8-719-105-46	DIODE RD3.3M-B2
D2018	8-719-801-78	DIODE 1SS184
D2019	8-719-801-78	DIODE 1SS184
D2025	8-719-801-78	DIODE 1SS184
D2027	8-719-801-78	DIODE 1SS184
D2028	8-719-801-78	DIODE 1SS184
D2029	8-719-801-78	DIODE 1SS184
D2030	8-719-801-78	DIODE 1SS184
D2031	8-719-105-63	DIODE RD4.3M-B1
D2034	8-719-801-78	DIODE 1SS184
D2035	8-719-801-78	DIODE 1SS184
D2036	8-719-801-78	DIODE 1SS184
D2037	8-719-801-78	DIODE 1SS184
D2040	8-719-801-78	DIODE 1SS184
D2041	8-719-105-46	DIODE RD3.3M-B2
D2109	8-719-800-76	DIODE 1SS226
D2110	8-719-800-76	DIODE 1SS226
D2111	8-719-800-76	DIODE 1SS226

REF.NO.	PART NO.	DESCRIPTION		REMARK
D2112	8-719-800-76	DIODE 1SS226		
D2113	8-719-800-76	DIODE 1SS226		
D2114	8-719-800-76	DIODE 1SS226		
D2115	8-719-801-78	DIODE 1SS184		

<DELAY LINE>

DL2001	1-403-573-11	DELAY LINE
DL2002	1-415-122-31	DELAY LINE, 1H (PAL)

<FERRITE BEAD>

FB2001	1-412-390-21	INDUCTOR CHIP	0UH
FB2002	1-412-390-21	INDUCTOR CHIP	0UH

<IC>

IC2001	8-759-300-71	IC HD14053BFP
IC2002	8-759-513-47	IC TDA4555/V1
IC2003	8-759-710-42	IC NJM2228M
IC2004	8-759-208-94	IC CX-894
IC2006	8-759-008-45	IC MC74HC4538F
IC2007	8-741-745-01	IC SBX1745-01
IC2009	8-752-012-52	IC CX20125
IC2010	8-759-069-28	IC PQ05RF11
IC2011	8-759-245-79	IC TA79005S
IC2014	8-759-513-72	IC PQ12RF11
IC2016	8-759-979-16	IC CX-7916
IC2017	8-759-929-94	IC SN74LS26NS
IC2018	8-749-924-73	IC BX-8305
IC2019	8-749-924-74	IC BX-8304
IC2020	8-749-010-68	IC BW8319A
IC2022	8-752-359-40	IC CXD101-108Q
IC2023	8-759-055-82	IC M62353GP
IC2024	8-759-300-71	IC HD14053BFP

<COIL>

L2001	1-409-504-11	COIL	
L2002	1-410-209-51	INDUCTOR CHIP	27UH
L2003	1-408-777-00	INDUCTOR CHIP	10UH
L2005	1-409-503-11	COIL	
L2006	1-408-773-31	INDUCTOR CHIP	4.7UH
L2007	1-409-502-11	COIL	
L2008	1-409-503-11	COIL	
L2009	1-408-774-11	INDUCTOR CHIP	5.6UH
L2010	1-409-503-11	COIL	
L2011	1-412-533-21	INDUCTOR	47UH
L2014	1-408-773-31	INDUCTOR CHIP	4.7UH
L2015	1-408-773-31	INDUCTOR CHIP	4.7UH
L2016	1-408-765-21	INDUCTOR CHIP	1UH
L2017	1-408-773-31	INDUCTOR CHIP	4.7UH
L2018	1-412-533-21	INDUCTOR	47UH
L2019	1-412-533-21	INDUCTOR	47UH
L2020	1-412-533-21	INDUCTOR	47UH

<TRANSISTOR>

Q2001	8-729-230-49	TRANSISTOR 2SC2712-YG
Q2002	8-729-230-49	TRANSISTOR 2SC2712-YG
Q2003	8-729-230-49	TRANSISTOR 2SC2712-YG
Q2004	8-729-230-49	TRANSISTOR 2SC2712-YG
Q2005	8-729-901-01	TRANSISTOR DTC144EK

BB

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q2006	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2007	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2008	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2009	8-729-901-01	TRANSISTOR DTC144EK	
Q2010	8-729-901-01	TRANSISTOR DTC144EK	
Q2011	8-729-901-01	TRANSISTOR DTC144EK	
Q2012	8-729-901-01	TRANSISTOR DTC144EK	
Q2013	8-729-901-01	TRANSISTOR DTC144EK	
Q2018	8-729-901-01	TRANSISTOR DTC144EK	
Q2019	8-729-116-06	TRANSISTOR 2SK160-K6	
Q2020	8-729-116-06	TRANSISTOR 2SK160-K6	
Q2021	8-729-901-01	TRANSISTOR DTC144EK	
Q2022	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2023	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2024	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2025	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2026	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2027	8-729-901-01	TRANSISTOR DTC144EK	
Q2028	8-729-901-01	TRANSISTOR DTC144EK	
Q2029	8-729-901-01	TRANSISTOR DTC144EK	
Q2030	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2031	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2032	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2033	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2034	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2035	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2036	8-729-901-01	TRANSISTOR DTC144EK	
Q2037	8-729-901-01	TRANSISTOR DTC144EK	
Q2038	8-729-901-01	TRANSISTOR DTC144EK	
Q2039	8-729-901-01	TRANSISTOR DTC144EK	
Q2040	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2041	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2044	8-729-901-01	TRANSISTOR DTC144EK	
Q2046	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2047	8-729-901-01	TRANSISTOR DTC144EK	
Q2048	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2050	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2051	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2056	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2058	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2060	8-729-901-01	TRANSISTOR DTC144EK	
Q2062	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2063	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2064	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2065	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2066	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2069	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2070	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2071	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2072	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2073	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2074	8-729-901-01	TRANSISTOR DTC144EK	
Q2075	8-729-901-01	TRANSISTOR DTC144EK	
Q2076	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2096	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2097	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2098	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2103	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2104	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2105	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2106	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2107	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2108	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2109	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2110	8-729-107-30	TRANSISTOR 2SC3545-T42	
Q2111	8-729-107-30	TRANSISTOR 2SC3545-T42	
Q2112	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2113	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2114	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2115	8-729-107-30	TRANSISTOR 2SC3545-T42	
Q2116	8-729-107-30	TRANSISTOR 2SC3545-T42	
Q2117	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2118	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2119	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2120	8-729-107-30	TRANSISTOR 2SC3545-T42	
Q2121	8-729-107-30	TRANSISTOR 2SC3545-T42	
Q2122	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2123	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2124	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2125	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2126	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2127	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2128	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2129	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2130	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2131	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2132	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2133	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2134	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2135	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2136	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2137	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2138	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2139	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2140	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2141	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2142	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2143	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2144	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2145	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2146	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2147	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q2148	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q2149	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q2150	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2151	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2152	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2153	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2154	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2155	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2156	8-729-901-01	TRANSISTOR DTC144EK	
Q2157	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2160	8-729-901-01	TRANSISTOR DTC144EK	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R2001	1-216-689-11	METAL GLAZE	39K	5%	1/10W	
R2002	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R2003	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R2004	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R2006	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R2007	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R2008	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R2010	1-216-639-11	METAL CHIP	330	0.50%	1/10W	
R2011	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R2012	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R2013	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R2014	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R2015	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R2016	1-216-647-11	METAL CHIP	680	0.50%	1/10W	
R2018	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W	
R2019	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R2020	1-216-645-11	METAL CHIP	560	0.50%	1/10W	
R2021	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R2022	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R2023	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R2024	1-208-774-11	METAL CHIP	470	0.50%	1/10W	
R2025	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R2026	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R2027	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R2028	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R2029	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R2030	1-208-774-11	METAL CHIP	470	0.50%	1/10W	
R2031	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R2032	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R2033	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R2034	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R2035	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R2036	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	
R2037	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R2038	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R2039	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2040	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R2041	1-216-031-00	METAL GLAZE	180	5%	1/10W	
R2042	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R2043	1-216-641-11	METAL CHIP	390	0.50%	1/10W	
R2044	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R2045	1-216-635-11	METAL CHIP	220	0.50%	1/10W	
R2046	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W	
R2047	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W	
R2048	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W	
R2049	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R2050	1-208-799-11	METAL CHIP	5.1K	0.50%	1/10W	
R2051	1-216-021-00	METAL GLAZE	68	5%	1/10W	
R2054	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	
R2055	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R2056	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R2057	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R2058	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R2059	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R2060	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R2061	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R2062	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R2063	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R2064	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R2065	1-216-013-00	METAL GLAZE	33	5%	1/10W	
R2066	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R2067	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R2068	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R2069	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R2070	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R2071	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R2072	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R2073	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R2074	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R2075	1-216-013-00	METAL GLAZE	33	5%	1/10W	
R2076	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W	
R2077	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R2078	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R2079	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R2080	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R2081	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R2082	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R2083	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R2085	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W	
R2086	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	
R2087	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R2089	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R2091	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R2092	1-208-774-11	METAL CHIP	470	0.50%	1/10W	
R2093	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R2094	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R2095	1-216-645-11	METAL CHIP	560	0.50%	1/10W	
R2096	1-216-635-11	METAL CHIP	220	0.50%	1/10W	
R2097	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R2098	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R2099	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R2100	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R2101	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2102	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R2104	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R2105	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R2111	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R2117	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R2118	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R2121	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R2122	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R2123	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R2125	1-216-296-00	CONDCTOR, CHIP				
R2126	1-216-639-11	METAL CHIP	330	0.50%	1/10W	
R2127	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R2128	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R2129	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R2130	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R2131	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R2138	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R2140	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R2145	1-208-774-11	METAL CHIP	470	0.50%	1/10W	
R2146	1-216-635-11	METAL CHIP	220	0.50%	1/10W	
R2149	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R2150	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2155	1-216-641-11	METAL CHIP	390	0.50%	1/10W	
R2159	1-216-117-00	METAL GLAZE	680K	5%	1/10W	
R2165	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R2166	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R2167	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R2168	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R2169	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R2174	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R2177	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R2178	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R2180	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R2181	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R2186	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R2187	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R2188	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R2189	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R2190	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R2191	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R2192	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R2193	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R2194	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R2195	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R2196	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	

BB

REF.NO.	PART NO.	DESCRIPTION				REMARK
R2197	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R2198	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R2199	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R2200	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W	
R2201	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R2202	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R2203	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R2204	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R2205	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2206	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R2207	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R2208	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R2301	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2302	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2303	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2304	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2305	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2306	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R2307	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R2308	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R2309	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2310	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R2311	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R2312	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R2314	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R2315	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R2316	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R2318	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R2319	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R2321	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R2322	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R2323	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2324	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2325	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2326	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2327	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2328	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2329	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2330	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2331	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2332	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R2333	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R2334	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R2335	1-216-639-11	METAL CHIP	330	0.50%	1/10W	
R2336	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R2337	1-216-639-11	METAL CHIP	330	0.50%	1/10W	
R2338	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R2339	1-216-639-11	METAL CHIP	330	0.50%	1/10W	
R2340	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R2351	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R2353	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R2354	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R2358	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R2359	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R2360	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2361	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R2362	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R2363	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R2364	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R2365	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R2366	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R2367	1-216-647-11	METAL CHIP	680	0.50%	1/10W	
R2368	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R2369	1-216-647-11	METAL CHIP	680	0.50%	1/10W	
R2370	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R2371	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2372	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2373	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2374	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2377	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2378	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2381	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2382	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R2383	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R2384	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2387	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2388	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R2389	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R2390	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2391	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2392	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2393	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2394	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R2395	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2396	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2397	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2398	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R2399	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R2400	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2401	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2402	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2403	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2404	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2405	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R2406	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2407	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2408	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R2409	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R2410	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2411	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2412	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R2413	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2414	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2415	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2416	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2417	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R2418	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R2419	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W	
R2420	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W	
R2421	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W	
R2422	1-216-679-11	METAL CHIP	15K	0.50%	1/10W	
R2423	1-216-679-11	METAL CHIP	15K	0.50%	1/10W	
R2424	1-216-679-11	METAL CHIP	15K	0.50%	1/10W	
R2425	1-216-639-11	METAL CHIP	330	0.50%	1/10W	
R2426	1-216-639-11	METAL CHIP	330	0.50%	1/10W	
R2427	1-216-639-11	METAL CHIP	330	0.50%	1/10W	
R2428	1-216-621-11	METAL CHIP	56	0.50%	1/10W	
R2429	1-216-621-11	METAL CHIP	56	0.50%	1/10W	
R2430	1-216-621-11	METAL CHIP	56	0.50%	1/10W	
R2431	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2432	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R2433	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R2434	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R2435	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R2436	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R2437	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R2438	1-216-017-00	METAL GLAZE	47	5%	1/10W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R2439	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2440	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2441	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2442	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2443	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2444	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R2445	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R2446	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R2447	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2448	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2449	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2450	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R2451	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2452	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R2453	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R2454	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R2455	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R2456	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R2457	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W	
R2458	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W	
R2459	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W	
R2460	1-208-812-11	METAL CHIP	18K	0.50%	1/10W	
R2461	1-208-812-11	METAL CHIP	18K	0.50%	1/10W	
R2462	1-208-812-11	METAL CHIP	18K	0.50%	1/10W	
R2463	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2464	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2465	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2467	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R2468	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R2469	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R2470	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R2471	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R2472	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R2473	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2474	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2475	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2476	1-216-647-11	METAL CHIP	680	0.50%	1/10W	
R2477	1-216-647-11	METAL CHIP	680	0.50%	1/10W	
R2478	1-208-774-11	METAL CHIP	470	0.50%	1/10W	
R2479	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R2480	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R2481	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R2482	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2483	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2484	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2485	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R2486	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R2487	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R2488	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R2489	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R2490	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R2491	1-216-021-00	METAL GLAZE	68	5%	1/10W	
R2492	1-216-021-00	METAL GLAZE	68	5%	1/10W	
R2493	1-216-021-00	METAL GLAZE	68	5%	1/10W	
R2494	1-216-647-11	METAL CHIP	680	0.50%	1/10W	
R2495	1-216-647-11	METAL CHIP	680	0.50%	1/10W	
R2496	1-216-647-11	METAL CHIP	680	0.50%	1/10W	
R2497	1-216-647-11	METAL CHIP	680	0.50%	1/10W	
R2498	1-216-647-11	METAL CHIP	680	0.50%	1/10W	
R2499	1-216-647-11	METAL CHIP	680	0.50%	1/10W	
R2500	1-216-645-11	METAL CHIP	560	0.50%	1/10W	
R2501	1-216-645-11	METAL CHIP	560	0.50%	1/10W	
R2502	1-216-645-11	METAL CHIP	560	0.50%	1/10W	
R2503	1-208-784-11	METAL CHIP	1.2K	0.50%	1/10W	
R2504	1-208-784-11	METAL CHIP	1.2K	0.50%	1/10W	
R2505	1-208-784-11	METAL CHIP	1.2K	0.50%	1/10W	
R2506	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R2507	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R2508	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R2509	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W	
R2510	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W	
R2511	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W	
R2512	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W	
R2513	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W	
R2514	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W	
R2515	1-216-617-11	METAL CHIP	39	0.50%	1/10W	
R2516	1-216-617-11	METAL CHIP	39	0.50%	1/10W	
R2517	1-216-617-11	METAL CHIP	39	0.50%	1/10W	
R2518	1-216-635-11	METAL CHIP	220	0.50%	1/10W	
R2519	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2520	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2521	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R2522	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R2523	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R2524	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R2525	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R2526	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R2527	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R2528	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R2529	1-208-774-11	METAL CHIP	470	0.50%	1/10W	
R2530	1-216-043-91	METAL GLAZE	560	5%	1/10W	
R2531	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R2532	1-216-633-11	METAL CHIP	180	0.50%	1/10W	
R2533	1-216-621-11	METAL CHIP	56	0.50%	1/10W	
R2534	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R2535	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R2536	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R2537	1-216-298-00	METAL GLAZE	2.2	5%	1/10W	
R2538	1-216-298-00	METAL GLAZE	2.2	5%	1/10W	
R2539	1-216-298-00	METAL GLAZE	2.2	5%	1/10W	
R2540	1-216-298-00	METAL GLAZE	2.2	5%	1/10W	
R2541	1-216-298-00	METAL GLAZE	2.2	5%	1/10W	
R2542	1-216-298-00	METAL GLAZE	2.2	5%	1/10W	
R2543	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R2544	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R2545	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R2550	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R2551	1-216-073-00	METAL GLAZE	10K	5%	1/10W	

<VARIABLE RESISTOR>

RV2001	1-241-759-21	RES, ADJ, CERMET	220
RV2002	1-241-760-21	RES, ADJ, CERMET	470
RV2004	1-241-760-21	RES, ADJ, CERMET	470
RV2005	1-241-759-21	RES, ADJ, CERMET	220
RV2006	1-241-763-11	RES, ADJ, CERMET	4.7K

RY2003	1-755-019-21	RELAY (CHIP TYPE)
RY2004	1-755-019-21	RELAY (CHIP TYPE)
RY2005	1-755-019-21	RELAY (CHIP TYPE)
RY2006	1-755-019-21	RELAY (CHIP TYPE)

<THERMISTOR>

TH2001	1-807-971-11	THERMISTOR

<CRYSTAL>

BB **BC**

REF.NO.	PART NO.	DESCRIPTION	REMARK
X2001	1-567-413-11	VIBRATOR, CRYSTAL	
X2002	1-527-789-00	VINRATOR, CRYSTAL	

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*A-1135-773-A BC BOARD, COMPLETE
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*4-043-311-01 HEAT SINK

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			REMARK
C3001	1-128-416-11	ELECT CHIP	100MF	20%	16V
C3002	1-128-416-11	ELECT CHIP	100MF	20%	16V
C3003	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3004	1-128-416-11	ELECT CHIP	100MF	20%	16V
C3005	1-128-416-11	ELECT CHIP	100MF	20%	16V
C3006	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3007	1-128-416-11	ELECT CHIP	100MF	20%	16V
C3008	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3009	1-128-416-11	ELECT CHIP	100MF	20%	16V
C3010	1-128-399-11	ELECT	330MF	20%	16V
C3011	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3012	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C3013	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C3014	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C3015	1-135-157-21	TANTAL. CHIP	10MF	20%	6.3V
C3016	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3018	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3101	1-126-395-11	ELECT	22MF	20%	16V
C3102	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3103	1-135-159-21	TANTAL. CHIP	10MF	20%	16V
C3104	1-126-395-11	ELECT	22MF	20%	16V
C3105	1-126-395-11	ELECT	22MF	20%	16V
C3106	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3107	1-135-159-21	TANTAL. CHIP	10MF	20%	16V
C3108	1-126-395-11	ELECT	22MF	20%	16V
C3109	1-126-395-11	ELECT	22MF	20%	16V
C3110	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3111	1-135-159-21	TANTAL. CHIP	10MF	20%	16V
C3112	1-126-395-11	ELECT	22MF	20%	16V
C3113	1-126-395-11	ELECT	22MF	20%	16V
C3114	1-126-395-11	ELECT	22MF	20%	16V
C3115	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3116	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3118	1-135-157-21	TANTAL. CHIP	10MF	20%	6.3V
C3119	1-126-205-11	ELECT	47MF	20%	6.3V
C3120	1-126-395-11	ELECT	22MF	20%	16V
C3121	1-126-395-11	ELECT	22MF	20%	16V
C3122	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3123	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3125	1-126-205-11	ELECT	47MF	20%	6.3V
C3126	1-126-395-11	ELECT	22MF	20%	16V
C3127	1-126-395-11	ELECT	22MF	20%	16V
C3128	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3129	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3131	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3132	1-126-205-11	ELECT	47MF	20%	6.3V
C3133	1-135-157-21	TANTAL. CHIP	10MF	20%	6.3V
C3134	1-135-157-21	TANTAL. CHIP	10MF	20%	6.3V
C3135	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3136	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3137	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3139	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3140	1-135-157-21	TANTAL. CHIP	10MF	20%	6.3V
C3141	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3142	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C3143	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3144	1-135-157-21	TANTAL. CHIP	10MF	20%	6.3V
C3145	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3146	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3148	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3149	1-135-157-21	TANTAL. CHIP	10MF	20%	6.3V
C3150	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3151	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C3152	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3153	1-135-157-21	TANTAL. CHIP	10MF	20%	6.3V
C3154	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3155	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3157	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3158	1-135-157-21	TANTAL. CHIP	10MF	20%	6.3V
C3159	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3160	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C3161	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3301	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3302	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3303	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C3304	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3305	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C3335	1-135-157-21	TANTAL. CHIP	10MF	20%	6.3V
C3336	1-135-157-21	TANTAL. CHIP	10MF	20%	6.3V
C3338	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3339	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C3340	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C3341	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C3501	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3502	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3503	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3504	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3505	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3506	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3507	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3508	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3509	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3510	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3511	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3512	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3513	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3514	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3515	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3516	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3517	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3518	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3519	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3520	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3521	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3522	1-135-157-21	TANTAL. CHIP	10MF	20%	6.3V
C3523	1-135-157-21	TANTAL. CHIP	10MF	20%	6.3V
C3524	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3525	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3526	1-135-157-21	TANTAL. CHIP	10MF	20%	6.3V
C3527	1-135-157-21	TANTAL. CHIP	10MF	20%	6.3V
C3528	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3529	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3530	1-135-157-21	TANTAL. CHIP	10MF	20%	6.3V
C3531	1-135-157-21	TANTAL. CHIP	10MF	20%	6.3V
C3532	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3535	1-126-204-11	ELECT	47MF	20%	16V

REF.NO.	PART NO.	DESCRIPTION	REMARK
C3536	1-135-157-21	TANTAL. CHIP 10MF 20%	6.3V
C3544	1-135-157-21	TANTAL. CHIP 10MF 20%	6.3V
C3545	1-135-157-21	TANTAL. CHIP 10MF 20%	6.3V
C3546	1-135-157-21	TANTAL. CHIP 10MF 20%	6.3V

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN3001	*1-764-798-11	SOCKET, CONNECTOR 100P	
CN3002	*1-764-790-11	SOCKET, CONNECTOR 80P	
CN3003	1-695-989-11	SOCKET, CONNECTOR 40P	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D3106	8-719-801-78	DIODE 1SS184	

<FERRITE BEAD>

REF.NO.	PART NO.	DESCRIPTION	REMARK
FB3001	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB3002	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB3003	1-412-390-21	INDUCTOR CHIP 0UH	
FB3101	1-412-390-21	INDUCTOR CHIP 0UH	
FB3102	1-412-390-21	INDUCTOR CHIP 0UH	
FB3103	1-412-390-21	INDUCTOR CHIP 0UH	
FB3104	1-412-390-21	INDUCTOR CHIP 0UH	
FB3105	1-412-390-21	INDUCTOR CHIP 0UH	
FB3106	1-412-390-21	INDUCTOR CHIP 0UH	
FB3107	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB3108	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB3109	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB3110	1-412-390-21	INDUCTOR CHIP 0UH	
FB3301	1-412-390-21	INDUCTOR CHIP 0UH	
FB3302	1-412-390-21	INDUCTOR CHIP 0UH	
FB3501	1-412-390-21	INDUCTOR CHIP 0UH	
FB3502	1-412-390-21	INDUCTOR CHIP 0UH	
FB3503	1-412-390-21	INDUCTOR CHIP 0UH	
FB3504	1-412-390-21	INDUCTOR CHIP 0UH	

<FILTER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
FL3114	1-236-738-11	FILTER, EMI	
FL3115	1-236-738-11	FILTER, EMI	
FL3118	1-239-868-21	FILTER, LOW PASS	
FL3119	1-239-538-21	FILTER, LOW PASS	
FL3120	1-239-868-21	FILTER, LOW PASS	
FL3121	1-239-540-21	FILTER, LOW PASS	
FL3122	1-239-868-21	FILTER, LOW PASS	
FL3123	1-239-540-21	FILTER, LOW PASS	
FL3501	1-239-537-21	FILTER, LOW PASS	
FL3502	1-239-537-21	FILTER, LOW PASS	
FL3503	1-239-537-21	FILTER, LOW PASS	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC3001	8-759-513-72	IC PQ12RF11	
IC3002	8-759-069-28	IC PQ05RF11	
IC3003	8-759-245-79	IC TA79005S	
IC3101	8-759-502-98	IC SN74AS1034ANS	
IC3102	8-752-052-77	IC CXA1450M	
IC3103	8-752-052-77	IC CXA1450M	
IC3104	8-752-052-77	IC CXA1450M	
IC3105	8-759-232-42	IC TC74HC109AF(EL)	
IC3106	8-752-342-70	IC CXD1179Q	
IC3107	8-752-342-70	IC CXD1179Q	
IC3108	8-752-342-70	IC CXD1179Q	
IC3109	8-759-186-30	IC TC74VHC14F(EL)	
IC3301	8-759-989-01	IC 74F08SJ	
IC3302	8-759-256-59	IC HD74HC00FPEL	
IC3303	8-759-925-78	IC SN74HC10ANS	
IC3304	8-759-033-19	IC MC74F125M	
IC3305	8-759-503-07	IC SN74AS1004ANS	
IC3306	8-759-007-80	IC MC74HC175F	
IC3307	8-752-340-75	IC CXK1206AM	
IC3308	8-759-985-84	IC 74AC574SJ	
IC3309	8-759-985-84	IC 74AC574SJ	
IC3310	8-759-985-84	IC 74AC574SJ	
IC3311	8-759-985-84	IC 74AC574SJ	
IC3312	8-759-985-84	IC 74AC574SJ	
IC3313	8-759-985-84	IC 74AC574SJ	
IC3314	8-759-174-16	IC TC74VHC244F(EL)	
IC3315	8-749-923-35	IC SNY-3076	
IC3316	8-749-923-36	IC SNY-3077	
IC3317	8-752-359-41	IC CXD206-107Q	
IC3318	8-759-323-08	IC HM63021FP-28	
IC3319	8-759-323-08	IC HM63021FP-28	
IC3320	8-759-323-08	IC HM63021FP-28	
IC3321	8-759-262-51	IC CY7C245A-25SP-TL	
IC3322	8-759-502-98	IC SN74AS1034ANS	
IC3324	8-759-186-51	IC TC74VHC157F(EL)	
IC3501	8-759-262-45	IC CY7C245A-25RU-TL	
IC3502	8-759-262-46	IC CY7C245A-25RL-TL	
IC3503	8-759-262-47	IC CY7C245A-25GU-TL	
IC3504	8-759-262-48	IC CY7C245A-25GL-TL	
IC3505	8-759-262-49	IC CY7C245A-25BU-TL	
IC3506	8-759-262-50	IC CY7C245A-25BL-TL	
IC3507	8-752-357-63	IC CXD2308Q	
IC3508	8-752-052-73	IC CXA1451M	
IC3509	8-752-052-73	IC CXA1451M	
IC3510	8-752-052-73	IC CXA1451M	
IC3511	8-759-081-44	IC TC74VHC04F(EL)	
IC3512	8-759-081-44	IC TC74VHC04F(EL)	
IC3513	8-759-985-84	IC 74AC574SJ	
IC3514	8-759-985-84	IC 74AC574SJ	
IC3515	8-759-985-84	IC 74AC574SJ	
IC3516	8-759-985-84	IC 74AC574SJ	
IC3517	8-759-174-16	IC TC74VHC244F(EL)	
IC3518	8-759-081-44	IC TC74VHC04F(EL)	

<FILTER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
LF3001	1-235-096-00	FILTER, LINE	
LF3002	1-235-096-00	FILTER, LINE	
LF3003	1-235-096-00	FILTER, LINE	
LF3004	1-235-096-00	FILTER, LINE	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q3103	8-729-107-30	TRANSISTOR 2SC3545-T42	
Q3104	8-729-107-30	TRANSISTOR 2SC3545-T42	
Q3105	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q3106	8-729-107-30	TRANSISTOR 2SC3545-T42	
Q3107	8-729-107-30	TRANSISTOR 2SC3545-T42	
Q3108	8-729-107-30	TRANSISTOR 2SC3545-T42	
Q3109	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q3110	8-729-107-30	TRANSISTOR 2SC3545-T42	
Q3111	8-729-107-30	TRANSISTOR 2SC3545-T42	
Q3112	8-729-107-30	TRANSISTOR 2SC3545-T42	
Q3113	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q3114	8-729-107-30	TRANSISTOR 2SC3545-T42	

BC

REF.NO.	PART NO.	DESCRIPTION		REMARK
Q3115	8-729-107-30	TRANSISTOR	2SC3545-T42	
Q3116	8-729-107-30	TRANSISTOR	2SC3545-T42	
Q3117	8-729-107-30	TRANSISTOR	2SC3545-T42	
Q3118	8-729-230-49	TRANSISTOR	2SC2712-YG	
Q3501	8-729-216-22	TRANSISTOR	2SA1162-G	
Q3502	8-729-230-49	TRANSISTOR	2SC2712-YG	
Q3503	8-729-216-22	TRANSISTOR	2SA1162-G	
Q3504	8-729-230-49	TRANSISTOR	2SC2712-YG	
Q3505	8-729-216-22	TRANSISTOR	2SA1162-G	
Q3506	8-729-230-49	TRANSISTOR	2SC2712-YG	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R3001	1-215-908-00	METAL OXIDE	33	5%	3W	F
R3101	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3102	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3103	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3104	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3105	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R3106	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R3107	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3108	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3109	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R3110	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3111	1-216-639-11	METAL CHIP	330	0.50%	1/10W	
R3112	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R3113	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R3114	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W	
R3115	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3116	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R3117	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R3118	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3119	1-216-633-11	METAL CHIP	180	0.50%	1/10W	
R3120	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R3121	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R3122	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W	
R3123	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3124	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R3125	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R3126	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3127	1-216-639-11	METAL CHIP	330	0.50%	1/10W	
R3128	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R3129	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R3130	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W	
R3131	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3132	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R3133	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R3134	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3135	1-216-633-11	METAL CHIP	180	0.50%	1/10W	
R3136	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R3137	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R3138	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W	
R3139	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3140	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R3141	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R3142	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3143	1-216-639-11	METAL CHIP	330	0.50%	1/10W	
R3144	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R3145	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R3146	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W	
R3147	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3148	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R3149	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R3150	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3151	1-216-633-11	METAL CHIP	180	0.50%	1/10W	
R3152	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R3153	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R3154	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W	
R3155	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3156	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R3157	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3158	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R3159	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R3160	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3161	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R3162	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R3163	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R3164	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R3165	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3166	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R3167	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R3168	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R3169	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R3170	1-216-295-91	CONDCTOR, CHIP				
R3171	1-216-295-91	CONDCTOR, CHIP				
R3172	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R3173	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R3175	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R3176	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R3180	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R3181	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R3182	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	
R3183	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W	
R3184	1-216-679-11	METAL CHIP	15K	0.50%	1/10W	
R3185	1-216-679-11	METAL CHIP	15K	0.50%	1/10W	
R3186	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	
R3187	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W	
R3188	1-216-679-11	METAL CHIP	15K	0.50%	1/10W	
R3189	1-216-679-11	METAL CHIP	15K	0.50%	1/10W	
R3190	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R3191	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R3192	1-216-645-11	METAL CHIP	560	0.50%	1/10W	
R3193	1-216-645-11	METAL CHIP	560	0.50%	1/10W	
R3194	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R3196	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	
R3197	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W	
R3198	1-216-645-11	METAL CHIP	560	0.50%	1/10W	
R3199	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R3200	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R3204	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3205	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R3206	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R3207	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R3208	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R3209	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R3210	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R3211	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3212	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3213	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3214	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3215	1-216-295-91	CONDCTOR, CHIP				
R3216	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R3217	1-216-295-91	CONDCTOR, CHIP				
R3218	1-216-295-91	CONDCTOR, CHIP				
R3219	1-216-295-91	CONDCTOR, CHIP				
R3301	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3302	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3303	1-216-073-00	METAL GLAZE	10K	5%	1/10W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R3304	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R3305	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R3306	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R3307	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3308	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3309	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R3310	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R3311	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R3312	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R3313	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R3314	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R3315	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R3316	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R3317	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3318	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R3319	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R3320	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R3321	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R3322	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R3323	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R3324	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R3325	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3326	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R3327	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R3328	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R3329	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3330	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3331	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3332	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3333	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3334	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R3335	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3336	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3337	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3338	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3339	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3340	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3341	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R3501	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3502	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3503	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3504	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3505	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3506	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3507	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3508	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3509	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3510	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3511	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3512	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R3513	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R3514	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R3515	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R3516	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R3517	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R3518	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R3519	1-208-784-11	METAL CHIP	1.2K	0.50%	1/10W	
R3520	1-208-784-11	METAL CHIP	1.2K	0.50%	1/10W	
R3521	1-208-784-11	METAL CHIP	1.2K	0.50%	1/10W	
R3522	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R3523	1-208-800-11	METAL CHIP	5.6K	0.50%	1/10W	
R3524	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R3525	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R3526	1-208-800-11	METAL CHIP	5.6K	0.50%	1/10W	
R3527	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R3528	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R3529	1-208-800-11	METAL CHIP	5.6K	0.50%	1/10W	
R3530	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R3531	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R3532	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R3533	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R3534	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R3535	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R3536	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R3537	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R3538	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R3539	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R3540	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R3541	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R3542	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R3543	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R3544	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R3545	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R3546	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R3547	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R3548	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R3549	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R3550	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R3551	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R3552	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R3553	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3554	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3555	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3556	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3557	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3558	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3559	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R3560	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R3561	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3562	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3563	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3564	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3565	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3566	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3567	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R3568	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R3569	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R3570	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R3571	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R3572	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R3573	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R3574	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R3575	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R3576	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R3577	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R3578	1-216-295-91	CONDCTOR, CHIP				
R3580	1-216-001-00	METAL GLAZE	10	5%	1/10W	

<VARIABLE RESISTOR>

RV3101	1-241-395-11	RES, ADJ, METAL GLAZE 10K
RV3102	1-241-395-11	RES, ADJ, METAL GLAZE 10K
RV3501	1-241-394-11	RES, ADJ, METAL GLAZE 4.7K
RV3502	1-241-394-11	RES, ADJ, METAL GLAZE 4.7K
RV3503	1-241-394-11	RES, ADJ, METAL GLAZE 4.7K

<RELAY>

BC **BD**

REF.NO.	PART NO.	DESCRIPTION		REMARK
RY3101	1-755-019-21	RELAY (CHIP TYPE)		

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*A-1135-774-A BD BOARD, COMPLETE
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<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION		REMARK
C4001	1-126-206-11	ELECT 100MF	20%	6.3V
C4002	1-163-035-00	CERAMIC CHIP 0.047MF		50V
C4003	1-126-206-11	ELECT 100MF	20%	6.3V
C4004	1-163-035-00	CERAMIC CHIP 0.047MF		50V
C4005	1-126-206-11	ELECT 100MF	20%	6.3V
C4006	1-163-035-00	CERAMIC CHIP 0.047MF		50V
C4010	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4011	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4012	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4014	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4015	1-163-109-00	CERAMIC CHIP 47PF	5%	50V
C4016	1-163-109-00	CERAMIC CHIP 47PF	5%	50V
C4017	1-163-109-00	CERAMIC CHIP 47PF	5%	50V
C4100	1-135-157-21	TANTAL. CHIP 10MF	20%	6.3V
C4101	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4102	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4103	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4104	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4105	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4106	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4107	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4108	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4109	1-135-157-21	TANTAL. CHIP 10MF	20%	6.3V
C4110	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4111	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4112	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4113	1-163-263-11	CERAMIC CHIP 330PF	5%	50V
C4114	1-135-091-91	TANTAL. CHIP 1MF	20%	16V
C4115	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4116	1-135-157-21	TANTAL. CHIP 10MF	20%	6.3V
C4117	1-135-091-91	TANTAL. CHIP 1MF	20%	16V
C4118	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4119	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
C4120	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4121	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4122	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4123	1-135-157-21	TANTAL. CHIP 10MF	20%	6.3V
C4124	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
C4125	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4126	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4127	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4128	1-135-157-21	TANTAL. CHIP 10MF	20%	6.3V
C4200	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4201	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4203	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4204	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4205	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4206	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4207	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4208	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4209	1-135-157-21	TANTAL. CHIP 10MF	20%	6.3V
C4210	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C4211	1-163-093-00	CERAMIC CHIP 10PF	5%	50V
C4212	1-163-091-00	CERAMIC CHIP 8PF	0.25PF	50V
C4213	1-135-157-21	TANTAL. CHIP 10MF	20%	6.3V

REF.NO.	PART NO.	DESCRIPTION	REMARK
C4214	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4300	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4301	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4302	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4303	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4304	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4305	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4306	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4307	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4308	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4309	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4330	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4331	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4332	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4333	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4334	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4335	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4336	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4337	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4338	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4339	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4360	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4361	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4362	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4363	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4364	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4365	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4366	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4367	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4368	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4369	1-163-038-91	CERAMIC CHIP 0.1MF	25V

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN4000	*1-695-986-11	SOCKET, CONNECTOR 40P	
CN4001	*1-764-795-11	SOCKET, CONNECTOR 80P	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D4100	8-719-801-78	DIODE 1SS184	
D4101	8-719-801-78	DIODE 1SS184	
D4102	8-719-801-78	DIODE 1SS184	

<FERRITE BEAD>

REF.NO.	PART NO.	DESCRIPTION	REMARK
FB4001	1-412-390-21	INDUCTOR CHIP OUH	
FB4002	1-412-390-21	INDUCTOR CHIP OUH	
FB4003	1-412-390-21	INDUCTOR CHIP OUH	
FB4004	1-412-390-21	INDUCTOR CHIP OUH	
FB4005	1-412-390-21	INDUCTOR CHIP OUH	
FB4006	1-412-390-21	INDUCTOR CHIP OUH	
FB4007	1-412-390-21	INDUCTOR CHIP OUH	
FB4008	1-412-390-21	INDUCTOR CHIP OUH	
FB4009	1-412-390-21	INDUCTOR CHIP OUH	
FB4100	1-412-390-21	INDUCTOR CHIP OUH	
FB4101	1-412-390-21	INDUCTOR CHIP OUH	
FB4102	1-412-390-21	INDUCTOR CHIP OUH	
FB4103	1-412-390-21	INDUCTOR CHIP OUH	
FB4104	1-412-390-21	INDUCTOR CHIP OUH	
FB4200	1-412-390-21	INDUCTOR CHIP OUH	
FB4201	1-412-390-21	INDUCTOR CHIP OUH	

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<IC>	
IC4001	8-759-985-84	IC 74AC574SJ	
IC4002	8-759-985-84	IC 74AC574SJ	
IC4003	8-759-985-84	IC 74AC574SJ	
IC4005	8-759-186-30	IC TC74VHC14F(EL)	
IC4100	8-759-081-44	IC TC74VHC04F(EL)	
IC4101	8-752-359-51	IC CXD206-115Q	
IC4102	8-759-256-96	IC UPD6451AGT-630-E2	
IC4103	8-759-257-54	IC PALCE16V8H-10VPL1-T4	
IC4104	8-752-338-46	IC CXD1178Q	
IC4105	8-759-908-92	IC TL084CNS	
IC4106	8-759-908-92	IC TL084CNS	
IC4107	8-752-337-04	IC CXD1176Q	
IC4200	8-752-359-54	IC CXD206-113Q	
IC4201	8-752-363-36	IC CXD206-110Q	
IC4203	8-759-081-46	IC TC74VHCU04F(EL)	
IC4204	8-759-081-42	IC TC74VHC00F(EL)	
IC4300	8-759-145-77	IC UPD42102G-3	
IC4301	8-759-145-77	IC UPD42102G-3	
IC4302	8-752-340-52	IC CXK48324Q	
IC4303	8-752-340-52	IC CXK48324Q	
IC4330	8-759-145-77	IC UPD42102G-3	
IC4331	8-759-145-77	IC UPD42102G-3	
IC4332	8-752-340-52	IC CXK48324Q	
IC4333	8-752-340-52	IC CXK48324Q	
IC4360	8-759-145-77	IC UPD42102G-3	
IC4361	8-759-145-77	IC UPD42102G-3	
IC4362	8-752-340-52	IC CXK48324Q	
IC4363	8-752-340-52	IC CXK48324Q	
		<COIL>	
L4001	1-412-533-21	INDUCTOR 47UH	
L4002	1-412-533-21	INDUCTOR 47UH	
L4003	1-412-533-21	INDUCTOR 47UH	
L4004	1-412-533-21	INDUCTOR 47UH	
		<TRANSISTOR>	
Q4100	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4101	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q4102	8-729-901-01	TRANSISTOR DTC144EK	
		<RESISTOR>	
R4001	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4002	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4003	1-216-009-00	METAL GLAZE 22 5% 1/10W	
R4004	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4005	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4006	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4007	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4008	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4009	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4010	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4011	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4012	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4013	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4014	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4015	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4016	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4017	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4018	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4019	1-216-025-00	METAL GLAZE 100 5% 1/10W	

REF.NO.	PART NO.	DESCRIPTION	REMARK
R4020	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4021	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4022	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4023	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4024	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4025	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4026	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4027	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4028	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4029	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4030	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4031	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4032	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4033	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4034	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4035	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R4036	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R4037	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R4038	1-216-009-00	METAL GLAZE 22 5% 1/10W	
R4039	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R4040	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R4041	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R4042	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R4043	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R4044	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R4045	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R4046	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R4047	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R4048	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R4049	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R4050	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R4051	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R4052	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R4053	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R4054	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R4055	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R4056	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R4057	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R4058	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R4059	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R4060	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R4061	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R4062	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R4063	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R4064	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R4065	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R4066	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4067	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R4068	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R4069	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R4070	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R4100	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R4101	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R4102	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R4103	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R4104	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R4105	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R4106	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R4107	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R4108	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R4109	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R4110	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R4111	1-216-017-00	METAL GLAZE 47 5% 1/10W	

BD

REF.NO.	PART NO.	DESCRIPTION				REMARK
R4112	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R4113	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R4114	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R4115	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R4116	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R4117	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R4118	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R4119	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R4120	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R4121	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R4122	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R4123	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R4124	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R4125	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R4126	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R4128	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R4129	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R4130	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R4131	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R4132	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R4133	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4134	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R4135	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R4136	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R4137	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R4138	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R4139	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R4140	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R4141	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R4142	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R4143	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R4144	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4145	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R4146	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4147	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4148	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4149	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R4150	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4151	1-216-115-00	METAL GLAZE	560K	5%	1/10W	
R4152	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4153	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R4154	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4155	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R4156	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R4157	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R4158	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R4159	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R4160	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R4161	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R4162	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R4163	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R4164	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R4165	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R4166	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R4167	1-216-295-91	CONDCTOR, CHIP				
R4168	1-216-295-91	CONDCTOR, CHIP				
R4169	1-216-295-91	CONDCTOR, CHIP				
R4170	1-216-295-91	CONDCTOR, CHIP				
R4171	1-216-295-91	CONDCTOR, CHIP				
R4172	1-216-295-91	CONDCTOR, CHIP				
R4173	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R4174	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4175	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4200	1-216-017-00	METAL GLAZE	47	5%	1/10W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R4205	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R4206	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4207	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R4208	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R4209	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R4210	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R4211	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R4212	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R4213	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4214	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R4215	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R4216	1-216-295-91	CONDCTOR, CHIP				
R4217	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4218	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R4219	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4220	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4300	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4301	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4302	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4303	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4304	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4305	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4306	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4307	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4308	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4309	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4310	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4311	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4312	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4313	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4314	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4315	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4330	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4331	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4332	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4333	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4334	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4335	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4336	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4337	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4338	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4339	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4340	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4341	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4342	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4343	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4344	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4345	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4360	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4361	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4362	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4363	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4364	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4365	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4366	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4367	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4368	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4369	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4370	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4371	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4372	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4373	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R4374	1-216-073-00	METAL GLAZE	10K	5%	1/10W	

REF.NO.	PART NO.	DESCRIPTION			REMARK
R4375	1-216-073-00	METAL GLAZE	10K	5%	1/10W

<CRYSTAL>

REF.NO.	PART NO.	DESCRIPTION
X4200	1-579-619-11	VIBRATOR, CRYSTAL

****

*A-1135-771-A BA BOARD, COMPLETE (VPL-350Q/350QM)
****

*A-1135-816-A BA BOARD, COMPLETE (VPL-351Q/351QM)
****

*1-526-950-11 SOCKET, IC 64P

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			REMARK
C1001	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1002	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1003	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1004	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1005	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1006	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1007	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C1008	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C1009	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1010	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C1011	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1012	1-126-601-11	ELECT	2.2MF	20%	50V
C1013	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1014	1-124-779-00	ELECT	10MF	20%	16V
C1015	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1016	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C1017	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C1018	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1019	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1020	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1021	1-128-416-11	ELECT CHIP	100MF	20%	16V
C1022	1-163-035-00	CERAMIC CHIP	0.047MF		50V
C1023	1-163-035-00	CERAMIC CHIP	0.047MF		50V
C1024	1-128-416-11	ELECT CHIP	100MF	20%	16V
C1025	1-124-779-00	ELECT	10MF	20%	16V
C1026	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1027	1-128-416-11	ELECT CHIP	100MF	20%	16V
C1028	1-128-416-11	ELECT CHIP	100MF	20%	16V
C1029	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1030	1-163-035-00	CERAMIC CHIP	0.047MF		50V
C1031	1-163-035-00	CERAMIC CHIP	0.047MF		50V
C1032	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1033	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1034	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1035	1-124-779-00	ELECT	10MF	20%	16V
C1036	1-126-193-11	ELECT	1MF	20%	50V
C1037	1-128-416-11	ELECT CHIP	100MF	20%	16V
C1039	1-126-193-11	ELECT	1MF	20%	50V
C1040	1-126-193-11	ELECT	1MF	20%	50V
C1041	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C1042	1-128-399-11	ELECT	330MF	20%	16V
C1043	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1044	1-137-368-11	FILM	0.0047MF	5%	50V
C1045	1-126-603-11	ELECT	4.7MF	20%	35V
C1046	1-124-779-00	ELECT	10MF	20%	16V
C1047	1-126-204-11	ELECT	47MF	20%	16V
C1048	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1049	1-130-471-00	FILM	0.001MF	5%	50V
C1050	1-126-395-11	ELECT	22MF	20%	16V
C1051	1-126-601-11	ELECT	2.2MF	20%	50V
C1052	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C1053	1-137-366-11	FILM	0.0022MF	5%	50V
C1054	1-130-471-00	FILM	0.001MF	5%	50V
C1055	1-136-173-00	FILM	0.47MF	5%	50V
C1056	1-124-779-00	ELECT	10MF	20%	16V
C1057	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1058	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C1059	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1060	1-126-601-11	ELECT	2.2MF	20%	50V
C1061	1-124-779-00	ELECT	10MF	20%	16V
C1062	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1063	1-126-193-11	ELECT	1MF	20%	50V
C1064	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1065	1-126-603-11	ELECT	4.7MF	20%	35V
C1066	1-126-395-11	ELECT	22MF	20%	16V
C1067	1-126-193-11	ELECT	1MF	20%	50V
C1068	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1069	1-126-204-11	ELECT	47MF	20%	16V
C1070	1-126-204-11	ELECT	47MF	20%	16V
C1071	1-130-728-00	FILM	0.0022MF	5%	50V
C1072	1-136-165-00	FILM	0.1MF	5%	50V
C1073	1-163-025-11	CERAMIC CHIP	0.001MF		50V
C1074	1-126-193-11	ELECT	1MF	20%	50V
C1075	1-128-399-11	ELECT	330MF	20%	16V
C1076	1-128-416-11	ELECT CHIP	100MF	20%	16V
C1077	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C1078	1-124-779-00	ELECT	10MF	20%	16V
C1079	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C1080	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1081	1-124-779-00	ELECT	10MF	20%	16V
C1082	1-124-779-00	ELECT	10MF	20%	16V
C1083	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C1084	1-128-416-11	ELECT CHIP	100MF	20%	16V
C1085	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1086	1-126-193-11	ELECT	1MF	20%	50V
C1087	1-126-204-11	ELECT	47MF	20%	16V
C1088	1-126-193-11	ELECT	1MF	20%	50V
C1089	1-136-165-00	FILM	0.1MF	5%	50V
C1090	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C1091	1-126-191-11	ELECT	0.47MF	20%	50V
C1092	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C1093	1-124-779-00	ELECT	10MF	20%	16V
C1094	1-136-165-00	FILM	0.1MF	5%	50V
C1095	1-124-779-00	ELECT	10MF	20%	16V
C1096	1-136-161-00	FILM	0.047MF	5%	50V
C1097	1-126-204-11	ELECT	47MF	20%	16V
C1098	1-137-368-11	FILM	0.0047MF	5%	50V
C1099	1-126-601-11	ELECT	2.2MF	20%	50V
C1100	1-124-779-00	ELECT	10MF	20%	16V
C1102	1-126-193-11	ELECT	1MF	20%	50V
C1103	1-126-193-11	ELECT	1MF	20%	50V
C1104	1-124-779-00	ELECT	10MF	20%	16V
C1106	1-126-193-11	ELECT	1MF	20%	50V
C1107	1-128-399-11	ELECT	330MF	20%	16V
C1108	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C1109	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C1110	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C1111	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C1112	1-128-416-11	ELECT CHIP	100MF	20%	16V
C1113	1-163-038-91	CERAMIC CHIP	0.1MF		25V

BA

REF.NO.	PART NO.	DESCRIPTION		REMARK
C1114	1-128-416-11	ELECT CHIP 100MF	20%	16V
C1115	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C1116	1-128-416-11	ELECT CHIP 100MF	20%	16V
C1117	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C1119	1-163-091-00	CERAMIC CHIP 8PF	0.25PF	50V
C1120	1-124-779-00	ELECT 10MF	20%	16V
C1121	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C1122	1-124-779-00	ELECT 10MF	20%	16V
C1123	1-163-133-00	CERAMIC CHIP 470PF	5%	50V
C1124	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C1125	1-126-204-11	ELECT 47MF	20%	16V
C1126	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
C1127	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
C1128	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C1130	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C1131	1-128-416-11	ELECT CHIP 100MF	20%	16V
C1132	1-163-035-00	CERAMIC CHIP 0.047MF		50V
C1133	1-128-416-11	ELECT CHIP 100MF	20%	16V
C1134	1-163-035-00	CERAMIC CHIP 0.047MF		50V
C1135	1-124-779-00	ELECT 10MF	20%	16V

<CONNECTOR>

CN1001*	1-764-798-11	SOCKET, CONNECTOR 100P

<DIODE>

D1001	8-719-045-55	DIODE SEC1201C
D1002	8-719-045-55	DIODE SEC1201C
D1003	8-719-045-55	DIODE SEC1201C
D1004	8-719-105-82	DIODE RD5.1M-B2
D1005	8-719-105-82	DIODE RD5.1M-B2
D1006	8-719-105-82	DIODE RD5.1M-B2
D1007	8-719-105-82	DIODE RD5.1M-B2
D1008	8-719-105-82	DIODE RD5.1M-B2
D1009	8-719-105-82	DIODE RD5.1M-B2
D1010	8-719-105-82	DIODE RD5.1M-B2
D1011	8-719-105-82	DIODE RD5.1M-B2
D1012	8-719-105-82	DIODE RD5.1M-B2
D1013	8-719-105-82	DIODE RD5.1M-B2
D1014	8-719-105-82	DIODE RD5.1M-B2
D1015	8-719-105-82	DIODE RD5.1M-B2
D1016	8-719-105-82	DIODE RD5.1M-B2
D1017	8-719-105-82	DIODE RD5.1M-B2
D1018	8-719-105-82	DIODE RD5.1M-B2
D1019	8-719-105-82	DIODE RD5.1M-B2
D1020	8-719-105-82	DIODE RD5.1M-B2
D1021	8-719-105-82	DIODE RD5.1M-B2
D1022	8-719-801-78	DIODE 1SS184
D1023	8-719-801-78	DIODE 1SS184
D1025	8-719-800-76	DIODE 1SS226
D1026	8-719-800-76	DIODE 1SS226
D1027	8-719-800-76	DIODE 1SS226

<FERRITE BEAD>

FB1001	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH
FB1002	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH

<FILTER>

FL1001	1-235-096-00	FILTER, LINE
FL1002	1-412-076-11	INDUCTOR CHIP 0UH
FL1003	1-412-076-11	INDUCTOR CHIP 0UH

REF.NO.	PART NO.	DESCRIPTION	REMARK

<IC>

IC1001	8-759-256-59	IC HD74HC00FPEL
IC1002	8-759-174-16	IC TC74VHC244F(EL)
IC1003	8-759-080-93	IC M6M80041FP
IC1004	8-752-359-40	IC CXD101-108Q
IC1005	8-759-284-70	IC HD6473258P10-LIP2.0 (VPL-350Q/350QM)
	8-759-296-42	IC HD6473257P10 (VPL-351Q/351QM)
IC1006	8-759-988-82	IC MB3773PF
IC1007	8-759-080-93	IC M6M80041FP
IC1008	8-759-984-59	IC MB654842UPF
IC1009	8-759-174-16	IC TC74VHC244F(EL)
IC1010	8-759-011-65	IC MC74HC4053F
IC1011	8-759-245-79	IC TA79005S
IC1012	8-759-300-71	IC HD14053BFP
IC1013	8-759-513-72	IC PQ12RF11
IC1014	8-759-926-18	IC SN74HC157ANS
IC1015	8-759-114-06	IC UPC814G2
IC1016	8-759-100-60	IC UPC1377C
IC1017	8-759-009-51	IC MC14538BF
IC1018	8-759-009-51	IC MC14538BF
IC1019	8-759-114-06	IC UPC814G2
IC1020	8-759-100-93	IC UPC393G2
IC1021	8-759-181-19	IC TDA2579B
IC1022	8-759-009-51	IC MC14538BF
IC1023	8-759-100-93	IC UPC393G2
IC1024	8-759-069-28	IC PQ05RF11
IC1025	8-759-911-24	IC SN74S124N
IC1026	8-759-503-07	IC SN74AS1004ANS
IC1027	8-752-306-51	IC CX23065A
IC1028	8-759-114-06	IC UPC814G2

<COIL>

L1001	1-412-533-21	INDUCTOR 47UH
L1002	1-412-533-21	INDUCTOR 47UH
L1003	1-412-533-21	INDUCTOR 47UH
L1004	1-412-533-21	INDUCTOR 47UH
L1005	1-412-533-21	INDUCTOR 47UH
L1006	1-412-533-21	INDUCTOR 47UH
L1007	1-412-533-21	INDUCTOR 47UH
L1008	1-412-390-21	INDUCTOR CHIP 0UH
L1009	1-412-390-21	INDUCTOR CHIP 0UH
L1010	1-412-390-21	INDUCTOR CHIP 0UH
L1011	1-412-390-21	INDUCTOR CHIP 0UH
L1012	1-412-390-21	INDUCTOR CHIP 0UH
L1013	1-412-390-21	INDUCTOR CHIP 0UH
L1014	1-412-390-21	INDUCTOR CHIP 0UH

<TRANSISTOR>

Q1001	8-729-230-49	TRANSISTOR 2SC2712-YG
Q1002	8-729-230-49	TRANSISTOR 2SC2712-YG
Q1003	8-729-230-49	TRANSISTOR 2SC2712-YG
Q1004	8-729-230-49	TRANSISTOR 2SC2712-YG
Q1005	8-729-901-01	TRANSISTOR DTC144EK
Q1006	8-729-901-01	TRANSISTOR DTC144EK
Q1007	8-729-230-49	TRANSISTOR 2SC2712-YG
Q1008	8-729-230-49	TRANSISTOR 2SC2712-YG
Q1009	8-729-216-22	TRANSISTOR 2SA1162-G
Q1010	8-729-216-22	TRANSISTOR 2SA1162-G
Q1011	8-729-230-49	TRANSISTOR 2SC2712-YG
Q1012	8-729-230-49	TRANSISTOR 2SC2712-YG
Q1013	8-729-904-04	TRANSISTOR FMS2
Q1014	8-729-926-23	TRANSISTOR FMW5

BA

REF.NO.	PART NO.	DESCRIPTION				REMARK
Q1015	8-729-216-22	TRANSISTOR 2SA1162-G				
Q1016	8-729-216-22	TRANSISTOR 2SA1162-G				
Q1017	8-729-216-22	TRANSISTOR 2SA1162-G				
Q1018	8-729-230-49	TRANSISTOR 2SC2712-YG				
Q1019	8-729-216-22	TRANSISTOR 2SA1162-G				
Q1020	8-729-230-49	TRANSISTOR 2SC2712-YG				
Q1021	8-729-230-49	TRANSISTOR 2SC2712-YG				
Q1022	8-729-230-49	TRANSISTOR 2SC2712-YG				
Q1023	8-729-230-49	TRANSISTOR 2SC2712-YG				
Q1024	8-729-216-22	TRANSISTOR 2SA1162-G				
Q1025	8-729-230-49	TRANSISTOR 2SC2712-YG				
Q1026	8-729-216-22	TRANSISTOR 2SA1162-G				
Q1027	8-729-216-22	TRANSISTOR 2SA1162-G				
Q1028	8-729-216-22	TRANSISTOR 2SA1162-G				
Q1029	8-729-230-49	TRANSISTOR 2SC2712-YG				
Q1030	8-729-216-22	TRANSISTOR 2SA1162-G				
Q1031	8-729-216-22	TRANSISTOR 2SA1162-G				

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1001	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1002	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1003	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1004	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1005	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1006	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1007	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1008	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1009	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1010	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1011	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1012	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1013	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1014	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1015	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1016	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1017	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1018	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1019	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1020	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1021	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1022	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1023	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1024	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1025	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1026	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1027	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1028	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1029	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1030	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1031	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1032	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1033	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1034	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1035	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1036	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1037	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1038	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1039	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1040	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1041	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1042	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1043	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1044	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1045	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1046	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1047	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1049	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R1050	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R1051	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1052	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R1053	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1054	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R1055	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1056	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1057	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1058	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1059	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1060	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1061	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1062	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1063	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1064	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1065	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1066	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R1067	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1068	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1069	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1070	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1071	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1072	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1073	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1074	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R1075	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1076	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1077	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R1078	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1079	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1080	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1081	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1082	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1083	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1084	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1085	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1086	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1087	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1088	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1089	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1090	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1091	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1092	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1093	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1094	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1095	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1096	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1097	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1098	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1099	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1100	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1101	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R1102	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1103	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1104	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1105	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1106	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R1107	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1108	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	

BA

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1109	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1110	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1111	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1112	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1113	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1114	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1115	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R1116	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1117	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R1118	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1119	1-216-697-91	METAL CHIP	82K	0.50%	1/10W	
R1120	1-216-697-91	METAL CHIP	82K	0.50%	1/10W	
R1121	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1122	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1123	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1124	1-208-774-11	METAL CHIP	470	0.50%	1/10W	
R1125	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W	
R1126	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1128	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1129	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R1130	1-216-697-91	METAL CHIP	82K	0.50%	1/10W	
R1131	1-216-697-91	METAL CHIP	82K	0.50%	1/10W	
R1132	1-216-699-11	METAL CHIP	100K	0.50%	1/10W	
R1133	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1134	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1135	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1136	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1137	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R1138	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R1139	1-216-685-11	METAL CHIP	27K	0.50%	1/10W	
R1140	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1141	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1142	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1144	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R1145	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R1146	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1147	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R1148	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1149	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1150	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1151	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1152	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1153	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1154	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1155	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1156	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1157	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1158	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R1159	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R1160	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1161	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R1162	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1163	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R1164	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R1165	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1166	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1167	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1168	1-216-105-91	METAL GLAZE	220K	5%	1/10W	
R1169	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1170	1-216-689-11	METAL GLAZE	39K	5%	1/10W	
R1171	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1172	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1173	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	
R1174	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1175	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1176	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1177	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R1178	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R1179	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R1180	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R1181	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1182	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R1183	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1184	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1185	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R1186	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1187	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R1188	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1189	1-216-105-91	METAL GLAZE	220K	5%	1/10W	
R1190	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1191	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1192	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1193	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R1194	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1195	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R1196	1-216-679-11	METAL CHIP	15K	0.50%	1/10W	
R1197	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1198	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1199	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1200	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R1201	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R1202	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1203	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1205	1-216-093-00	METAL GLAZE	68K	5%	1/10W	
R1206	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1207	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1208	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1209	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1210	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1211	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1212	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1213	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1214	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1215	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1216	1-216-105-91	METAL GLAZE	220K	5%	1/10W	
R1217	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1218	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R1219	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1220	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1221	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1222	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1223	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1224	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1225	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R1226	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1227	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1228	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1229	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1230	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1231	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1232	1-216-129-00	METAL GLAZE	2.2M	5%	1/10W	
R1233	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1234	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1236	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1237	1-216-129-00	METAL GLAZE	2.2M	5%	1/10W	
R1238	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R1239	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

BA **FA** **FB**

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1240	1-216-105-91	METAL GLAZE	220K	5%	1/10W	
R1241	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1242	1-216-129-00	METAL GLAZE	2.2M	5%	1/10W	
R1243	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1244	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1245	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1247	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1249	1-216-295-91	CONDCTOR, CHIP				
R1250	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1251	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R1252	1-216-295-91	CONDCTOR, CHIP				
R1253	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1254	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1255	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1256	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1257	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R1258	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1259	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1260	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R1261	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1262	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1263	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1264	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1265	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R1266	1-216-129-00	METAL GLAZE	2.2M	5%	1/10W	
R1267	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R1268	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1269	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1270	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1271	1-216-295-91	CONDCTOR, CHIP				
R1273	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1274	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1275	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1276	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1277	1-216-295-91	CONDCTOR, CHIP				
R1278	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1279	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1280	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1281	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1282	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1283	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1284	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1285	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1286	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1287	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1288	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1289	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1290	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1291	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1292	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1293	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1294	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1295	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1296	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1297	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1298	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1299	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1300	1-216-295-91	CONDCTOR, CHIP				
R1302	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1303	1-216-025-00	METAL GLAZE	100	5%	1/10W	

<VARIABLE RESISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
RV1001	1-241-764-11	RES, ADJ, CERMET 10K	
RV1002	1-241-764-11	RES, ADJ, CERMET 10K	
RV1003	1-241-764-11	RES, ADJ, CERMET 10K	

<SWITCH>

REF.NO.	PART NO.	DESCRIPTION	REMARK
S1001	1-570-598-11	SWITCH, DIP	
S1002	1-570-865-11	SWITCH, SLIDE	
S1003	1-570-865-11	SWITCH, SLIDE	

<CRYSTAL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
X1001	1-760-040-11	VIBRATOR, CRYSTAL	
X1002	1-578-687-11	VIBRATOR, CRYSTAL	

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*A-1241-134-A FA BOARD, COMPLETE (PVM-350Q/351Q)
****

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C601	⚠ 1-137-111-11	FILM	1MF	20%	250V	
C602	⚠ 1-137-110-11	FILM	0.47MF	20%	250V	
C603	⚠ 1-107-821-11	FILM	0.0015MF	20%	250V	
C604	⚠ 1-107-821-11	FILM	0.0015MF	20%	250V	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN601	*1-537-711-11	TAB, FASTEN (PCB)	
CN602	*1-537-711-11	TAB, FASTEN (PCB)	
CN603	*1-537-711-11	TAB, FASTEN (PCB)	
CN604	*1-537-711-11	TAB, FASTEN (PCB)	

<VARISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
0VZ601	⚠1-810-271-21	VARISTOR ZNR-14DK471U	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R601	⚠ 1-202-846-00	SOLID	470K	20%	1/2W	
R602	⚠ 1-202-846-00	SOLID	470K	20%	1/2W	

<TRANSFORMER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
T601	⚠ 1-426-790-11	TRANSFORMER, LINE FILTER	

****

A-1241-129-A FB BOARD, COMPLETE (VPL-350QM/351QM)
****

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C601	⚠ 1-107-821-11	FILM	0.0015MF	20%	250V	
C602	⚠ 1-107-821-11	FILM	0.0015MF	20%	250V	
C603	⚠ 1-137-111-11	FILM	1MF	20%	250V	
C604	⚠ 1-137-111-11	FILM	1MF	20%	250V	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN601	*1-537-711-11	TAB, FASTEN (PCB)	
CN602	*1-537-711-11	TAB, FASTEN (PCB)	
CN603	*1-537-711-11	TAB, FASTEN (PCB)	
CN604	*1-537-711-11	TAB, FASTEN (PCB)	

<COIL>

FB **QB**

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION			REMARK
L601 ⚠	1-409-523-11	COIL, CHOKE 168UH			
L602 ⚠	1-409-523-11	COIL, CHOKE 168UH			

<VARISTOR>

REF.NO.	PART NO.	DESCRIPTION			REMARK
0VZ601⚠	1-810-271-21	VARISTOR ZNR-14DK471U			

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION			REMARK
R601 ⚠	1-202-846-00	SOLID	470K	20%	1/2W
R602 ⚠	1-202-846-00	SOLID	470K	20%	1/2W

<TRANSFORMER>

REF.NO.	PART NO.	DESCRIPTION			REMARK
T601 ⚠	1-421-944-31	TRANSFORMER, LINE FILTER			
T602 ⚠	1-421-944-31	TRANSFORMER, LINE FILTER			

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*A-1275-115-A QB BOARD, COMPLETE
****

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			REMARK
C100	1-126-395-11	ELECT	22MF	20%	16V
C101	1-126-395-11	ELECT	22MF	20%	16V
C102	1-126-395-11	ELECT	22MF	20%	16V
C103	1-124-779-00	ELECT	10MF	20%	16V
C104	1-126-395-11	ELECT	22MF	20%	16V
C105	1-126-395-11	ELECT	22MF	20%	16V
C106	1-126-204-11	ELECT	47MF	20%	16V
C107	1-124-779-00	ELECT	10MF	20%	16V
C108	1-124-779-00	ELECT	10MF	20%	16V
C109	1-126-103-11	ELECT	470MF	20%	16V
C110	1-126-395-11	ELECT	22MF	20%	16V
C111	1-126-395-11	ELECT	22MF	20%	16V
C112	1-124-779-00	ELECT	10MF	20%	16V
C113	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C114	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C115	1-126-204-11	ELECT	47MF	20%	16V
C116	1-124-779-00	ELECT	10MF	20%	16V
C117	1-124-779-00	ELECT	10MF	20%	16V
C118	1-126-103-11	ELECT	470MF	20%	16V
C119	1-126-395-11	ELECT	22MF	20%	16V
C120	1-126-395-11	ELECT	22MF	20%	16V
C121	1-124-779-00	ELECT	10MF	20%	16V
C122	1-124-779-00	ELECT	10MF	20%	16V
C123	1-124-779-00	ELECT	10MF	20%	16V
C124	1-126-204-11	ELECT	47MF	20%	16V
C125	1-124-779-00	ELECT	10MF	20%	16V
C126	1-124-779-00	ELECT	10MF	20%	16V
C127	1-126-103-11	ELECT	470MF	20%	16V
C128	1-126-395-11	ELECT	22MF	20%	16V
C129	1-124-779-00	ELECT	10MF	20%	16V
C130	1-124-779-00	ELECT	10MF	20%	16V
C140	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C141	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C142	1-124-779-00	ELECT	10MF	20%	16V
C143	1-124-779-00	ELECT	10MF	20%	16V
C144	1-126-193-11	ELECT	1MF	20%	50V
C145	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C146	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C147	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C148	1-124-779-00	ELECT	10MF	20%	16V
C149	1-124-779-00	ELECT	10MF	20%	16V
C150	1-126-193-11	ELECT	1MF	20%	50V
C151	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C152	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C153	1-126-193-11	ELECT	1MF	20%	50V
C154	1-126-395-11	ELECT	22MF	20%	16V
C155	1-126-395-11	ELECT	22MF	20%	16V
C156	1-126-395-11	ELECT	22MF	20%	16V
C157	1-126-395-11	ELECT	22MF	20%	16V
C158	1-126-395-11	ELECT	22MF	20%	16V
C159	1-126-395-11	ELECT	22MF	20%	16V
C160	1-124-779-00	ELECT	10MF	20%	16V
C161	1-124-779-00	ELECT	10MF	20%	16V
C162	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C163	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C164	1-124-779-00	ELECT	10MF	20%	16V
C165	1-124-779-00	ELECT	10MF	20%	16V
C166	1-126-204-11	ELECT	47MF	20%	16V
C167	1-126-204-11	ELECT	47MF	20%	16V
C168	1-126-204-11	ELECT	47MF	20%	16V
C189	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C190	1-136-169-00	FILM	0.22MF	5%	50V
C191	1-126-395-11	ELECT	22MF	20%	16V
C192	1-124-779-00	ELECT	10MF	20%	16V
C193	1-124-779-00	ELECT	10MF	20%	16V
C194	1-126-204-11	ELECT	47MF	20%	16V
C195	1-126-204-11	ELECT	47MF	20%	16V
C196	1-126-103-11	ELECT	470MF	20%	16V
C197	1-136-169-00	FILM	0.22MF	5%	50V
C198	1-136-169-00	FILM	0.22MF	5%	50V
C199	1-124-557-11	ELECT	1000MF	20%	25V
C200	1-124-120-11	ELECT	220MF	20%	16V
C204	1-124-779-00	ELECT	10MF	20%	16V
C205	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C206	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C207	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C208	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C209	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C210	1-124-779-00	ELECT	10MF	20%	16V
C211	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C212	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C213	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C214	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C215	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C216	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C217	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C218	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C219	1-124-779-00	ELECT	10MF	20%	16V
C220	1-124-779-00	ELECT	10MF	20%	16V
C221	1-124-779-00	ELECT	10MF	20%	16V
C222	1-124-779-00	ELECT	10MF	20%	16V
C223	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C224	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C225	1-126-395-11	ELECT	22MF	20%	16V
C226	1-126-395-11	ELECT	22MF	20%	16V
C227	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C228	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C229	1-126-395-11	ELECT	22MF	20%	16V
C230	1-124-779-00	ELECT	10MF	20%	16V
C231	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C232	1-124-779-00	ELECT	10MF	20%	16V
C233	1-124-779-00	ELECT	10MF	20%	16V
C234	1-128-416-11	ELECT CHIP	100MF	20%	16V

QB

REF.NO.	PART NO.	DESCRIPTION	REMARK
C235	1-128-416-11	ELECT CHIP 100MF 20%	16V
C236	1-128-416-11	ELECT CHIP 100MF 20%	16V
C238	1-124-779-00	ELECT 10MF 20%	16V
C239	1-128-416-11	ELECT CHIP 100MF 20%	16V
C241	1-126-395-11	ELECT 22MF 20%	16V
C242	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C243	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C244	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C246	1-128-416-11	ELECT CHIP 100MF 20%	16V
C247	1-126-204-11	ELECT 47MF 20%	16V
C248	1-126-395-11	ELECT 22MF 20%	16V
C249	1-126-395-11	ELECT 22MF 20%	16V
C250	1-163-031-11	CERAMIC CHIP 0.01MF	50V
		<CONNECTOR>	
CN101	*1-565-930-11	CONNECTOR (RECEPTACLE) 30P	
CN102	*1-564-518-11	PLUG, CONNECTOR 3P	
CN103	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)	
CN104	1-564-595-11	PLUG, CONNECTOR 14P	
CN105	*1-564-521-11	PLUG, CONNECTOR 6P	
CN106	*1-564-527-11	PLUG, CONNECTOR 12P	
CN107	*1-564-509-11	PLUG, CONNECTOR 6P	
CN108	*1-564-512-11	PLUG, CONNECTOR 9P	
CN109	*1-564-517-11	PLUG, CONNECTOR 2P	
CN110	*1-564-520-11	PLUG, CONNECTOR 5P	
CN111	1-573-852-11	CONNECTOR, BOARD TO BOARD 20P	
		<DIODE>	
D103	8-719-105-82	DIODE RD5.1M-B2	
D106	8-719-105-82	DIODE RD5.1M-B2	
D109	8-719-105-82	DIODE RD5.1M-B2	
D110	8-719-800-76	DIODE 1SS226	
D111	8-719-800-76	DIODE 1SS226	
D116	8-719-800-76	DIODE 1SS226	
D117	8-719-800-76	DIODE 1SS226	
D118	8-719-800-76	DIODE 1SS226	
D119	8-719-800-76	DIODE 1SS226	
D120	8-719-800-76	DIODE 1SS226	
D121	8-719-800-76	DIODE 1SS226	
D122	8-719-105-82	DIODE RD5.1M-B2	
D123	8-719-105-82	DIODE RD5.1M-B2	
D124	8-719-105-82	DIODE RD5.1M-B2	
D132	8-719-105-82	DIODE RD5.1M-B2	
D133	8-719-800-76	DIODE 1SS226	
D134	8-719-800-76	DIODE 1SS226	
D136	8-719-800-76	DIODE 1SS226	
D137	8-719-105-82	DIODE RD5.1M-B2	
D138	8-719-105-82	DIODE RD5.1M-B2	
D139	8-719-105-82	DIODE RD5.1M-B2	
D140	8-719-105-82	DIODE RD5.1M-B2	
D141	8-719-105-82	DIODE RD5.1M-B2	
D142	8-719-105-82	DIODE RD5.1M-B2	
D143	8-719-105-82	DIODE RD5.1M-B2	
D144	8-719-105-82	DIODE RD5.1M-B2	
D145	8-719-105-82	DIODE RD5.1M-B2	
D146	8-719-105-82	DIODE RD5.1M-B2	
D150	8-719-105-82	DIODE RD5.1M-B2	
D151	8-719-105-82	DIODE RD5.1M-B2	
D152	8-719-105-82	DIODE RD5.1M-B2	
D153	8-719-105-82	DIODE RD5.1M-B2	
D154	8-719-105-82	DIODE RD5.1M-B2	
D155	8-719-105-82	DIODE RD5.1M-B2	

REF.NO.	PART NO.	DESCRIPTION	REMARK
D156	8-719-105-82	DIODE RD5.1M-B2	
D157	8-719-105-82	DIODE RD5.1M-B2	
D158	8-719-105-82	DIODE RD5.1M-B2	
		<FERRITE BEAD>	
FB101	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB102	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
		<IC>	
IC101	8-752-052-77	IC CXA1450M	
IC102	8-749-922-85	IC BX-6475	
IC103	8-752-052-77	IC CXA1450M	
IC104	8-749-922-85	IC BX-6475	
IC105	8-752-052-77	IC CXA1450M	
IC106	8-749-922-85	IC BX-6475	
IC107	8-749-010-54	IC BX7913A	
IC109	8-759-100-93	IC UPC393G2	
IC110	8-759-300-71	IC HD14053BFP	
IC112	8-759-145-27	IC UPC1406HA	
IC113	8-759-101-77	IC UPC1241H	
IC114	8-759-100-97	IC UPC339G2	
IC116	8-759-100-97	IC UPC339G2	
IC117	8-752-359-40	IC CXD101-108Q	
IC118	8-759-055-82	IC M62353GP	
IC120	8-759-300-71	IC HD14053BFP	
IC121	8-759-513-72	IC PQ12RF11	
IC122	8-759-069-28	IC PQ05RF11	
IC123	8-759-245-79	IC TA79005S	
		<COIL>	
L101	1-412-533-21	INDUCTOR 47UH	
L102	1-412-533-21	INDUCTOR 47UH	
L103	1-412-533-21	INDUCTOR 47UH	
L104	1-408-773-31	INDUCTOR CHIP 4.7UH	
		<TRANSISTOR>	
Q101	8-729-107-30	TRANSISTOR 2SC3545-T42	
Q102	8-729-107-30	TRANSISTOR 2SC3545-T42	
Q103	8-729-107-30	TRANSISTOR 2SC3545-T42	
Q104	8-729-107-30	TRANSISTOR 2SC3545-T42	
Q105	8-729-107-30	TRANSISTOR 2SC3545-T42	
Q106	8-729-107-30	TRANSISTOR 2SC3545-T42	
Q107	8-729-107-30	TRANSISTOR 2SC3545-T42	
Q108	8-729-140-75	TRANSISTOR 2SD999-CLCK	
Q109	8-729-107-30	TRANSISTOR 2SC3545-T42	
Q110	8-729-107-30	TRANSISTOR 2SC3545-T42	
Q111	8-729-901-01	TRANSISTOR DTC144EK	
Q112	8-729-901-01	TRANSISTOR DTC144EK	
Q113	8-729-901-01	TRANSISTOR DTC144EK	
Q114	8-729-216-22	TRANSISTOR 2SA1162-G	
Q115	8-729-216-22	TRANSISTOR 2SA1162-G	
Q116	8-729-216-22	TRANSISTOR 2SA1162-G	
Q117	8-729-216-22	TRANSISTOR 2SA1162-G	
Q118	8-729-216-22	TRANSISTOR 2SA1162-G	
Q119	8-729-216-22	TRANSISTOR 2SA1162-G	
Q120	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q121	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q122	8-729-216-22	TRANSISTOR 2SA1162-G	
Q123	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q124	8-729-230-49	TRANSISTOR 2SC2712-YG	

QB

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q125	8-729-216-22	TRANSISTOR 2SA1162-G	
Q126	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q127	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q128	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q129	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q130	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q131	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q132	8-729-107-30	TRANSISTOR 2SC3545-T42	
Q133	8-729-107-30	TRANSISTOR 2SC3545-T42	
Q134	8-729-107-30	TRANSISTOR 2SC3545-T42	
Q147	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q148	8-729-141-18	TRANSISTOR 2SC3692	
Q149	8-729-901-01	TRANSISTOR DTC144EK	
Q150	8-729-901-01	TRANSISTOR DTC144EK	
Q151	8-729-901-01	TRANSISTOR DTC144EK	
Q152	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q153	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q154	8-729-216-22	TRANSISTOR 2SA1162-G	
Q155	8-729-216-22	TRANSISTOR 2SA1162-G	
Q156	8-729-216-22	TRANSISTOR 2SA1162-G	
Q157	8-729-216-22	TRANSISTOR 2SA1162-G	
Q158	8-729-901-01	TRANSISTOR DTC144EK	
Q159	8-729-901-01	TRANSISTOR DTC144EK	
Q160	8-729-901-01	TRANSISTOR DTC144EK	
Q161	8-729-901-01	TRANSISTOR DTC144EK	
		<RESISTOR>	
R100	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R101	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R102	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R103	1-216-631-11	METAL CHIP 150 0.50% 1/10W	
R104	1-216-631-11	METAL CHIP 150 0.50% 1/10W	
R105	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R106	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R107	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R108	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R109	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R110	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R111	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R112	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R113	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R114	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R115	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R116	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R117	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R118	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R119	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R120	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R121	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R122	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R123	1-216-631-11	METAL CHIP 150 0.50% 1/10W	
R124	1-216-631-11	METAL CHIP 150 0.50% 1/10W	
R125	1-216-105-91	METAL GLAZE 220K 5% 1/10W	
R126	1-216-105-91	METAL GLAZE 220K 5% 1/10W	
R127	1-216-631-11	METAL CHIP 150 0.50% 1/10W	
R128	1-216-631-11	METAL CHIP 150 0.50% 1/10W	
R129	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R130	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R131	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R132	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R133	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R134	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R135	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R136	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R137	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R138	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R139	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R140	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R141	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R142	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R143	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R144	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R145	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R146	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R147	1-216-631-11	METAL CHIP 150 0.50% 1/10W	
R148	1-216-631-11	METAL CHIP 150 0.50% 1/10W	
R149	1-216-105-91	METAL GLAZE 220K 5% 1/10W	
R150	1-216-105-91	METAL GLAZE 220K 5% 1/10W	
R151	1-216-631-11	METAL CHIP 150 0.50% 1/10W	
R152	1-216-631-11	METAL CHIP 150 0.50% 1/10W	
R153	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R154	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R155	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R156	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R157	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R158	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R159	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R160	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R161	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R162	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R163	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R164	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R165	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R166	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R167	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R168	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R169	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R170	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R171	1-216-631-11	METAL CHIP 150 0.50% 1/10W	
R172	1-216-631-11	METAL CHIP 150 0.50% 1/10W	
R173	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R174	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R175	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R176	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R177	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R178	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R179	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R180	1-216-009-00	METAL GLAZE 22 5% 1/10W	
R211	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R212	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R213	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R214	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R215	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R216	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R217	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R218	1-216-105-91	METAL GLAZE 220K 5% 1/10W	
R219	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R220	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R221	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R222	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R223	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R224	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
R225	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R226	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R227	1-216-105-91	METAL GLAZE 220K 5% 1/10W	
R228	1-216-105-91	METAL GLAZE 220K 5% 1/10W	
R229	1-216-073-00	METAL GLAZE 10K 5% 1/10W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R230	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R231	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R232	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R233	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R234	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R235	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R236	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R237	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R238	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R240	1-216-105-91	METAL GLAZE	220K	5%	1/10W	
R241	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R242	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R243	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R244	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R245	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R246	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R247	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R248	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R249	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R250	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R251	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R252	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R253	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R254	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R255	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R256	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R257	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R258	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R259	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R260	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R261	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R262	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R263	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R264	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R265	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R266	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R267	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R268	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R269	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R270	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R271	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R272	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R273	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R274	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R275	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R276	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R277	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R278	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R285	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R286	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R287	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R288	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R289	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R290	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R291	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R292	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R293	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R294	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R295	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R296	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R298	1-216-105-91	METAL GLAZE	220K	5%	1/10W	
R299	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R300	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R302	1-216-105-91	METAL GLAZE	220K	5%	1/10W	
R304	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R305	1-216-105-91	METAL GLAZE	220K	5%	1/10W	
R600	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R601	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R602	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R603	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R604	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R605	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R606	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R607	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R608	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R609	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R610	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R687	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R688	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R689	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R690	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R691	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R692	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R693	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R694	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R695	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R696	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R697	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R698	1-247-704-11	CARBON	220	5%	1/4W	F
R699	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R700	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R701	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R702	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R703	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R704	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R705	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R706	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R707	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R708	1-216-295-91	CONDCTOR, CHIP				
R709	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R710	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R711	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R712	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R713	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R714	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R715	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R716	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R717	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R718	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R719	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R720	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R721	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R725	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R726	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R727	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R728	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R729	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R730	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R731	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R732	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R733	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R734	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R735	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R736	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R737	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R738	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R739	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	

QB **QB1**

REF.NO.	PART NO.	DESCRIPTION	REMARK
R740	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R741	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R742	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R743	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R744	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R745	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R746	1-216-295-91	CONDCTOR, CHIP	
R747	1-216-001-00	METAL GLAZE 10 5% 1/10W	
R748	1-216-001-00	METAL GLAZE 10 5% 1/10W	
R749	1-216-001-00	METAL GLAZE 10 5% 1/10W	
R750	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R751	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R752	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R753	1-216-105-91	METAL GLAZE 220K 5% 1/10W	
R754	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R755	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R756	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R757	1-216-105-91	METAL GLAZE 220K 5% 1/10W	
R759	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R760	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R761	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R762	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R763	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R764	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R765	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R766	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R767	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R768	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R769	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R770	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R771	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R772	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R773	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R774	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R775	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R776	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R777	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R778	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R779	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R780	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R781	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R782	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R783	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R784	1-216-448-11	METAL OXIDE 39 5% 2W	F
R785	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R786	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R787	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R788	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R789	1-216-105-91	METAL GLAZE 220K 5% 1/10W	

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*A-1275-116-A QB1 BOARD, COMPLETE
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<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
C131	1-126-395-11	ELECT 22MF 20% 16V	
C132	1-126-395-11	ELECT 22MF 20% 16V	
C133	1-126-395-11	ELECT 22MF 20% 16V	
C134	1-126-395-11	ELECT 22MF 20% 16V	
C135	1-124-779-00	ELECT 10MF 20% 16V	
C136	1-124-779-00	ELECT 10MF 20% 16V	
C137	1-124-779-00	ELECT 10MF 20% 16V	
C138	1-163-031-11	CERAMIC CHIP 0.01MF 50V	
C139	1-163-031-11	CERAMIC CHIP 0.01MF 50V	
C169	1-126-193-11	ELECT 1MF 20% 50V	
C170	1-126-193-11	ELECT 1MF 20% 50V	
C171	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C172	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C173	1-124-779-00	ELECT 10MF 20% 16V	
C174	1-126-193-11	ELECT 1MF 20% 50V	
C175	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C176	1-124-779-00	ELECT 10MF 20% 16V	
C177	1-126-193-11	ELECT 1MF 20% 50V	
C178	1-126-193-11	ELECT 1MF 20% 50V	
C179	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C180	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C181	1-124-779-00	ELECT 10MF 20% 16V	
C182	1-126-193-11	ELECT 1MF 20% 50V	
C183	1-126-193-11	ELECT 1MF 20% 50V	
C184	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C185	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C186	1-124-779-00	ELECT 10MF 20% 16V	
C187	1-163-031-11	CERAMIC CHIP 0.01MF 50V	
C188	1-124-779-00	ELECT 10MF 20% 16V	
C201	1-163-031-11	CERAMIC CHIP 0.01MF 50V	
C202	1-163-031-11	CERAMIC CHIP 0.01MF 50V	
C203	1-163-031-11	CERAMIC CHIP 0.01MF 50V	
C255	1-124-779-00	ELECT 10MF 20% 16V	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN112	1-573-834-11	CONNECTOR, BOARD TO BOARD 20P	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D125	8-719-800-76	DIODE 1SS226	
D126	8-719-800-76	DIODE 1SS226	
D127	8-719-800-76	DIODE 1SS226	
D128	8-719-800-76	DIODE 1SS226	
D147	8-719-800-76	DIODE 1SS226	
D148	8-719-800-76	DIODE 1SS226	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC108	8-759-300-71	IC HD14053BFP	
IC111	8-759-300-71	IC HD14053BFP	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q135	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q136	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q137	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q138	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q139	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q140	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q141	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q142	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q143	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q144	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q145	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q146	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q171	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q172	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q173	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q174	8-729-230-49	TRANSISTOR 2SC2712-YG	

C

REF.NO.	PART NO.	DESCRIPTION	REMARK
FL336	1-412-390-21	INDUCTOR CHIP OUH	
FL337	1-543-610-11	BEAD, FERRITE	
FL338	1-543-610-11	BEAD, FERRITE	
FL339	1-543-610-11	BEAD, FERRITE	
FL340	1-543-610-11	BEAD, FERRITE	
FL341	1-412-076-11	INDUCTOR CHIP OUH	
FL342	1-412-390-21	INDUCTOR CHIP OUH	
FL343	1-412-390-21	INDUCTOR CHIP OUH	
FL344	1-412-390-21	INDUCTOR CHIP OUH	
FL345	1-412-390-21	INDUCTOR CHIP OUH	
FL346	1-412-390-21	INDUCTOR CHIP OUH	
FL347	1-412-390-21	INDUCTOR CHIP OUH	
FL348	1-412-390-21	INDUCTOR CHIP OUH	
FL349	1-412-390-21	INDUCTOR CHIP OUH	
FL350	1-412-390-21	INDUCTOR CHIP OUH	
FL351	1-412-390-21	INDUCTOR CHIP OUH	
FL352	1-412-390-21	INDUCTOR CHIP OUH	
FL353	1-412-390-21	INDUCTOR CHIP OUH	
FL354	1-412-390-21	INDUCTOR CHIP OUH	
FL355	1-412-390-21	INDUCTOR CHIP OUH	
FL356	1-412-390-21	INDUCTOR CHIP OUH	
FL357	1-412-390-21	INDUCTOR CHIP OUH	
FL358	1-412-390-21	INDUCTOR CHIP OUH	
FL359	1-412-390-21	INDUCTOR CHIP OUH	
FL360	1-412-390-21	INDUCTOR CHIP OUH	
FL362	1-412-390-21	INDUCTOR CHIP OUH	
FL363	1-412-390-21	INDUCTOR CHIP OUH	
FL364	1-412-390-21	INDUCTOR CHIP OUH	
FL365	1-412-390-21	INDUCTOR CHIP OUH	
FL366	1-412-390-21	INDUCTOR CHIP OUH	
FL367	1-412-390-21	INDUCTOR CHIP OUH	
FL368	1-412-390-21	INDUCTOR CHIP OUH	
FL369	1-239-036-11	FILTER, EMI (CHIP)	
		<IC>	
IC302	8-759-081-44	IC TC74VHC04F(EL)	
IC303	8-759-174-16	IC TC74VHC244F(EL)	
IC305	8-752-369-62	IC CXD101-111Q	
IC306	8-759-908-92	IC TL084CNS	
IC309	8-759-908-17	IC TL082CPS	
IC310	8-759-186-30	IC TC74VHC14F(EL)	
IC312	8-752-359-40	IC CXD101-108Q	
IC313	8-759-982-91	IC 74F157ASJ	
IC314	8-759-926-05	IC SN74HC125ANS	
IC315	8-759-174-16	IC TC74VHC244F(EL)	
IC316	8-759-982-91	IC 74F157ASJ	
IC317	8-759-513-72	IC PQ12RF11	
IC319	8-759-169-44	IC TA78L10F-TE12R	
IC320	8-759-908-15	IC TL431CLP	
IC321	8-759-908-17	IC TL082CPS	
IC322	8-759-400-25	IC AN79L15	
IC323	8-759-245-86	IC TA79012S	
IC324	8-759-246-78	IC PQ05RF14	
IC325	8-759-509-05	IC XRU4066BF	
		<FILTER>	
LF301	1-235-096-00	FILTER, LINE	
		<TRANSISTOR>	
Q302	8-729-216-22	TRANSISTOR 2SA1162-G	
Q303	8-729-804-87	TRANSISTOR 2SB1142-T	

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q304	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q305	8-729-216-22	TRANSISTOR 2SA1162-G	
Q306	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q307	8-729-804-92	TRANSISTOR 2SD1682-T	
Q308	8-729-820-82	TRANSISTOR 2SA1208-T	
Q309	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q310	8-729-216-22	TRANSISTOR 2SA1162-G	
Q311	8-729-216-22	TRANSISTOR 2SA1162-G	
Q312	8-729-378-93	TRANSISTOR 2SD789-5	
Q313	8-729-216-22	TRANSISTOR 2SA1162-G	
Q314	8-729-216-22	TRANSISTOR 2SA1162-G	
Q315	8-729-255-12	TRANSISTOR 2SC2551-O	
Q316	8-729-804-87	TRANSISTOR 2SB1142-T	
Q317	8-729-804-92	TRANSISTOR 2SD1682-T	
Q318	8-729-820-82	TRANSISTOR 2SA1208-T	
Q319	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q320	8-729-216-22	TRANSISTOR 2SA1162-G	
Q321	8-729-216-22	TRANSISTOR 2SA1162-G	
Q322	8-729-378-93	TRANSISTOR 2SD789-5	
Q323	8-729-216-22	TRANSISTOR 2SA1162-G	
Q324	8-729-216-22	TRANSISTOR 2SA1162-G	
Q325	8-729-255-12	TRANSISTOR 2SC2551-O	
Q326	8-729-804-87	TRANSISTOR 2SB1142-T	
Q327	8-729-804-92	TRANSISTOR 2SD1682-T	
Q328	8-729-820-82	TRANSISTOR 2SA1208-T	
Q329	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q330	8-729-216-22	TRANSISTOR 2SA1162-G	
Q331	8-729-216-22	TRANSISTOR 2SA1162-G	
Q332	8-729-378-93	TRANSISTOR 2SD789-5	
Q333	8-729-216-22	TRANSISTOR 2SA1162-G	
Q334	8-729-216-22	TRANSISTOR 2SA1162-G	
Q335	8-729-255-12	TRANSISTOR 2SC2551-O	
Q336	8-729-804-87	TRANSISTOR 2SB1142-T	
Q337	8-729-230-49	TRANSISTOR 2SC2712-YG	
		<RESISTOR>	
R325	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R326	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R327	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R328	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R329	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R330	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R331	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R332	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R333	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R334	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R335	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R336	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R337	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R338	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R340	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R341	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R342	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R343	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R344	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R345	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R348	1-216-029-00	METAL GLAZE 150 5% 1/10W	
R350	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R351	1-208-799-11	METAL CHIP 5.1K 0.50% 1/10W	
R352	1-208-800-11	METAL CHIP 5.6K 0.50% 1/10W	
R353	1-216-295-91	CONDCTOR, CHIP	
R354	1-216-049-00	METAL GLAZE 1K 5% 1/10W	

C

REF.NO.	PART NO.	DESCRIPTION				REMARK
R355	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R356	1-216-295-91	CONDCTOR, CHIP				
R357	1-208-800-11	METAL CHIP	5.6K	0.50%	1/10W	
R358	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R359	1-216-685-11	METAL CHIP	27K	0.50%	1/10W	
R360	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R361	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R362	1-216-395-00	METAL OXIDE	3.3	5%	3W	F
R363	1-208-812-11	METAL CHIP	18K	0.50%	1/10W	
R364	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R365	1-216-295-91	CONDCTOR, CHIP				
R366	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R367	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R368	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R369	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R370	1-216-685-11	METAL CHIP	27K	0.50%	1/10W	
R371	1-216-295-91	CONDCTOR, CHIP				
R372	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R373	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R374	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R375	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R376	1-216-295-91	CONDCTOR, CHIP				
R377	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R378	1-216-685-11	METAL CHIP	27K	0.50%	1/10W	
R379	1-249-393-11	CARBON	10	5%	1/4W	F
R380	1-249-393-11	CARBON	10	5%	1/4W	F
R381	1-249-393-11	CARBON	10	5%	1/4W	F
R382	1-215-892-11	METAL OXIDE	1K	5%	2W	F
R383	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R384	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R385	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W	
R386	1-216-677-11	METAL CHIP	12K	0.50%	1/10W	
R387	1-216-295-91	CONDCTOR, CHIP				
R388	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W	
R389	1-215-871-11	METAL OXIDE	2.2K	5%	1W	F
R390	1-216-647-11	METAL CHIP	680	0.50%	1/10W	
R391	1-249-384-11	CARBON	1.8	5%	1/4W	F
R392	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W	
R393	1-208-784-11	METAL CHIP	1.2K	0.50%	1/10W	
R394	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R395	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R396	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R397	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W	
R398	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R399	1-249-384-11	CARBON	1.8	5%	1/4W	F
R400	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R401	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R402	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R403	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W	
R404	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W	
R405	1-216-455-11	METAL OXIDE	560	5%	2W	F
R406	1-216-295-91	CONDCTOR, CHIP				
R407	1-215-892-11	METAL OXIDE	1K	5%	2W	F
R408	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R409	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R410	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W	
R411	1-216-677-11	METAL CHIP	12K	0.50%	1/10W	
R412	1-216-295-91	CONDCTOR, CHIP				
R413	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W	
R414	1-215-871-11	METAL OXIDE	2.2K	5%	1W	F
R415	1-216-647-11	METAL CHIP	680	0.50%	1/10W	
R416	1-249-384-11	CARBON	1.8	5%	1/4W	F
R417	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W	
R418	1-208-784-11	METAL CHIP	1.2K	0.50%	1/10W	
R419	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R420	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R421	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R422	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W	
R423	1-216-647-11	METAL CHIP	680	0.50%	1/10W	
R424	1-249-384-11	CARBON	1.8	5%	1/4W	F
R425	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R426	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R427	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R428	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W	
R429	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W	
R430	1-216-455-11	METAL OXIDE	560	5%	2W	F
R431	1-216-295-91	CONDCTOR, CHIP				
R432	1-215-892-11	METAL OXIDE	1K	5%	2W	F
R433	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R434	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R435	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W	
R436	1-216-677-11	METAL CHIP	12K	0.50%	1/10W	
R437	1-216-295-91	CONDCTOR, CHIP				
R438	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W	
R439	1-215-871-11	METAL OXIDE	2.2K	5%	1W	F
R440	1-216-647-11	METAL CHIP	680	0.50%	1/10W	
R441	1-249-384-11	CARBON	1.8	5%	1/4W	F
R442	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W	
R443	1-208-784-11	METAL CHIP	1.2K	0.50%	1/10W	
R444	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R445	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R446	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R447	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W	
R448	1-216-647-11	METAL CHIP	680	0.50%	1/10W	
R449	1-249-384-11	CARBON	1.8	5%	1/4W	F
R450	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R451	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R452	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R453	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W	
R454	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W	
R455	1-216-455-11	METAL OXIDE	560	5%	2W	F
R456	1-216-295-91	CONDCTOR, CHIP				
R457	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R458	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R459	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R460	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R461	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R462	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R463	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R464	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R465	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R466	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R467	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R468	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R469	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R470	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R471	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R472	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R473	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R474	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R479	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R480	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R482	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R483	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R484	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R485	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R486	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	

REF.NO.	PART NO.	DESCRIPTION	REMARK
R487	1-216-661-11	METAL CHIP 2.7K 0.50% 1/10W	
R493	1-216-001-00	METAL GLAZE 10 5% 1/10W	
R494	1-216-001-00	METAL GLAZE 10 5% 1/10W	
R495	1-216-295-91	CONDCTOR, CHIP	

<VARIABLE RESISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
RV301	1-241-764-11	RES, ADJ, CERMET 10K	
RV302	1-241-764-11	RES, ADJ, CERMET 10K	
RV303	1-241-764-11	RES, ADJ, CERMET 10K	

<SWITCH>

REF.NO.	PART NO.	DESCRIPTION	REMARK
S301	1-570-857-11	SWITCH, SLIDE	

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*A-1375-139-A H1 BOARD, COMPLETE
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<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
C501	1-124-779-00	ELECT 10MF 20% 16V	
C505	1-163-038-91	CERAMIC CHIP 0.1MF 25V	
C506	1-163-235-11	CERAMIC CHIP 22PF 5% 50V	
C507	1-163-235-11	CERAMIC CHIP 22PF 5% 50V	
C508	1-163-031-11	CERAMIC CHIP 0.01MF 50V	
C509	1-163-031-11	CERAMIC CHIP 0.01MF 50V	
C510	1-128-416-11	ELECT CHIP 100MF 20% 16V	
C511	1-128-416-11	ELECT CHIP 100MF 20% 16V	
C512	1-163-031-11	CERAMIC CHIP 0.01MF 50V	
C513	1-124-779-00	ELECT 10MF 20% 16V	
C525	1-126-601-11	ELECT 2.2MF 20% 50V	
C527	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C535	1-163-109-00	CERAMIC CHIP 47PF 5% 50V	
C536	1-163-109-00	CERAMIC CHIP 47PF 5% 50V	
C537	1-163-109-00	CERAMIC CHIP 47PF 5% 50V	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN502	*1-564-527-11	PLUG, CONNECTOR 12P	
CN503	*1-564-525-11	PLUG, CONNECTOR 10P	
CN506	*1-564-519-11	PLUG, CONNECTOR 4P	
CN507	*1-564-523-11	PLUG, CONNECTOR 8P	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D501	8-719-045-55	DIODE SEC1201C	
D502	8-719-045-53	DIODE SEC1801C	
D503	8-719-045-53	DIODE SEC1801C	
D504	8-719-045-53	DIODE SEC1801C	
D505	8-719-045-53	DIODE SEC1801C	
D506	8-719-045-53	DIODE SEC1801C	
D507	8-719-045-53	DIODE SEC1801C	
D508	8-719-045-53	DIODE SEC1801C	
D509	8-719-045-53	DIODE SEC1801C	
D510	8-719-045-53	DIODE SEC1801C	
D511	8-719-045-53	DIODE SEC1801C	
D512	8-719-045-53	DIODE SEC1801C	
D513	8-719-045-53	DIODE SEC1801C	
D514	8-719-045-53	DIODE SEC1801C	
D515	8-719-045-53	DIODE SEC1801C	
D516	8-719-045-53	DIODE SEC1801C	
D517	8-719-045-53	DIODE SEC1801C	
D518	8-719-045-53	DIODE SEC1801C	
D519	8-719-045-53	DIODE SEC1801C	
D520	8-719-045-53	DIODE SEC1801C	
D521	8-719-045-53	DIODE SEC1801C	
D522	8-719-045-53	DIODE SEC1801C	
D523	8-719-045-53	DIODE SEC1801C	
D524	8-719-045-53	DIODE SEC1801C	
D525	8-719-045-53	DIODE SEC1801C	
D526	8-719-045-53	DIODE SEC1801C	
D530	8-719-800-76	DIODE 1SS226	
D531	8-719-800-76	DIODE 1SS226	
D532	8-719-800-76	DIODE 1SS226	
D533	8-719-800-76	DIODE 1SS226	
D534	8-719-800-76	DIODE 1SS226	
D535	8-719-800-76	DIODE 1SS226	
D536	8-719-800-76	DIODE 1SS226	
D537	8-719-800-76	DIODE 1SS226	
D538	8-719-800-76	DIODE 1SS226	
D539	8-719-800-76	DIODE 1SS226	
D540	8-719-800-76	DIODE 1SS226	
D541	8-719-800-76	DIODE 1SS226	

<FERRITE BEAD>

REF.NO.	PART NO.	DESCRIPTION	REMARK
FB501	1-412-390-21	INDUCTOR CHIP 0UH	
FB502	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB503	1-412-390-21	INDUCTOR CHIP 0UH	
FB504	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC501	8-759-285-18	IC MC68HC05P7BSC402191B	
IC502	8-759-032-29	IC MC74HC126AF	
IC503	8-759-979-65	IC RH5VA43AA	

<COIL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
L501	1-412-533-21	INDUCTOR 47UH	
L502	1-412-533-21	INDUCTOR 47UH	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q503	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q504	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q505	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q506	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q507	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q518	8-729-901-01	TRANSISTOR DTC144EK	
Q520	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q521	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q522	8-729-230-49	TRANSISTOR 2SC2712-YG	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
R501	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R502	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R503	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R504	1-216-133-00	METAL GLAZE 3.3M 5% 1/10W	
R505	1-216-133-00	METAL GLAZE 3.3M 5% 1/10W	
R506	1-216-133-00	METAL GLAZE 3.3M 5% 1/10W	
R507	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R508	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R509	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R510	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R511	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R512	1-216-089-00	METAL GLAZE 47K 5% 1/10W	

REF.NO.	PART NO.	DESCRIPTION	REMARK
R513	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R514	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R515	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R516	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R517	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R518	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R519	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R520	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R521	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R522	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R523	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R524	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R525	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R526	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R527	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R529	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R530	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R531	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R532	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R533	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R534	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R535	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R536	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R537	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R539	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R540	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R541	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R542	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R543	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R544	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R545	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R546	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R547	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R548	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R549	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R550	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R551	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R552	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R553	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R554	1-216-017-00	METAL GLAZE 47 5% 1/10W	

<SWITCH>

REF.NO.	PART NO.	DESCRIPTION	REMARK
S511	1-570-910-21	SWITCH, TACTIL (REFLOW TYPE)	
S512	1-570-910-21	SWITCH, TACTIL (REFLOW TYPE)	
S513	1-570-910-21	SWITCH, TACTIL (REFLOW TYPE)	
S520	1-570-910-21	SWITCH, TACTIL (REFLOW TYPE)	
S522	1-570-910-21	SWITCH, TACTIL (REFLOW TYPE)	
S523	1-570-910-21	SWITCH, TACTIL (REFLOW TYPE)	
S530	1-570-910-21	SWITCH, TACTIL (REFLOW TYPE)	
S531	1-570-910-21	SWITCH, TACTIL (REFLOW TYPE)	
S532	1-570-910-21	SWITCH, TACTIL (REFLOW TYPE)	
S533	1-570-910-21	SWITCH, TACTIL (REFLOW TYPE)	
S540	1-570-910-21	SWITCH, TACTIL (REFLOW TYPE)	
S541	1-570-910-21	SWITCH, TACTIL (REFLOW TYPE)	
S550	1-570-910-21	SWITCH, TACTIL (REFLOW TYPE)	
S551	1-570-910-21	SWITCH, TACTIL (REFLOW TYPE)	
S552	1-570-910-21	SWITCH, TACTIL (REFLOW TYPE)	
S553	1-570-910-21	SWITCH, TACTIL (REFLOW TYPE)	
S560	1-570-910-21	SWITCH, TACTIL (REFLOW TYPE)	
S561	1-570-910-21	SWITCH, TACTIL (REFLOW TYPE)	
S562	1-570-910-21	SWITCH, TACTIL (REFLOW TYPE)	
S563	1-570-910-21	SWITCH, TACTIL (REFLOW TYPE)	

<CRYSTAL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
X501	1-567-192-11	OSCILLATOR, CERAMIC	

****

*A-1375-140-A H2 BOARD, COMPLETE
****

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN51	*1-564-523-11	PLUG, CONNECTOR 8P	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D51	8-719-045-51	DIODE SEC2422C	
D53	8-719-313-43	DIODE SEL6210S-TH10	
D54	8-719-313-43	DIODE SEL6210S-TH10	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q51	8-729-230-49	TRANSISTOR 2SC2712-YG	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
R51	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R52	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R53	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R54	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R55	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R56	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R57	1-216-035-00	METAL GLAZE 270 5% 1/10W	

<SWITCH>

REF.NO.	PART NO.	DESCRIPTION	REMARK
S51	1-570-937-11	SWITCH, DIP	

****

*A-1375-141-A H3 BOARD, COMPLETE
****

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
C61	1-124-779-00	ELECT 10MF 20% 16V	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN61	*1-564-519-11	PLUG, CONNECTOR 4P	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC61	8-741-780-51	IC SBX1780-51	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
R61	1-216-295-91	CONDCTOR, CHIP	

****

*A-1375-142-A H4 BOARD, COMPLETE
****

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			REMARK
C901	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C902	1-128-416-11	ELECT CHIP	100MF	20%	16V
C903	1-128-416-11	ELECT CHIP	100MF	20%	16V
C904	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C905	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C906	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C907	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C908	1-128-416-11	ELECT CHIP	100MF	20%	16V
C909	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C910	1-124-779-00	ELECT	10MF	20%	16V
C911	1-124-779-00	ELECT	10MF	20%	16V
C912	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C913	1-124-779-00	ELECT	10MF	20%	16V
C914	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C915	1-128-416-11	ELECT CHIP	100MF	20%	16V
C916	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C917	1-124-779-00	ELECT	10MF	20%	16V
C918	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C919	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C920	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C921	1-124-779-00	ELECT	10MF	20%	16V
C922	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C923	1-124-779-00	ELECT	10MF	20%	16V
C924	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C925	1-124-779-00	ELECT	10MF	20%	16V
C926	1-128-416-11	ELECT CHIP	100MF	20%	16V
C927	1-126-103-11	ELECT	470MF	20%	16V
C928	1-126-103-11	ELECT	470MF	20%	16V
C929	1-126-103-11	ELECT	470MF	20%	16V
C930	1-126-103-11	ELECT	470MF	20%	16V
C931	1-126-103-11	ELECT	470MF	20%	16V
C932	1-126-103-11	ELECT	470MF	20%	16V
C933	1-126-103-11	ELECT	470MF	20%	16V
C934	1-126-103-11	ELECT	470MF	20%	16V
C935	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C936	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C937	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C938	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C939	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C940	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C941	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C942	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C943	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C944	1-163-038-91	CERAMIC CHIP	0.1MF		25V

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
CN901	1-564-595-11	PLUG, CONNECTOR 14P
CN902	*1-564-516-11	PLUG, CONNECTOR 13P
CN903	*1-564-515-11	PLUG, CONNECTOR 12P
CN904	*1-564-513-11	PLUG, CONNECTOR 10P
CN905	*1-564-512-11	PLUG, CONNECTOR 9P
CN906	1-564-505-11	PLUG, CONNECTOR 2P
CN907	1-564-505-11	PLUG, CONNECTOR 2P
CN908	*1-564-506-11	PLUG, CONNECTOR 3P
CN909	*1-564-505-11	PLUG, CONNECTOR 2P
CN910	*1-564-506-11	PLUG, CONNECTOR 3P
CN912	*1-564-506-11	PLUG, CONNECTOR 3P
CN913	*1-564-506-11	PLUG, CONNECTOR 3P
CN914	*1-564-506-11	PLUG, CONNECTOR 3P

<DIODE>

REF.NO.	PART NO.	DESCRIPTION
D901	8-719-801-78	DIODE 1SS184
D902	8-719-105-91	DIODE RD5.6M-B2
D903	8-719-105-91	DIODE RD5.6M-B2
D904	8-719-801-78	DIODE 1SS184
D905	8-719-801-78	DIODE 1SS184
D906	8-719-105-91	DIODE RD5.6M-B2
D907	8-719-105-91	DIODE RD5.6M-B2
D908	8-719-105-91	DIODE RD5.6M-B2
D909	8-719-105-91	DIODE RD5.6M-B2
D910	8-719-803-20	DIODE TLR320

<FERRITE BEAD>

REF.NO.	PART NO.	DESCRIPTION	
FB901	1-412-390-21	INDUCTOR CHIP	OUH
FB902	1-412-390-21	INDUCTOR CHIP	OUH
FB903	1-412-390-21	INDUCTOR CHIP	OUH
FB904	1-412-390-21	INDUCTOR CHIP	OUH

<IC>

REF.NO.	PART NO.	DESCRIPTION
IC901	8-759-513-72	IC PQ12RF11
IC902	8-752-359-40	IC CXD101-108Q
IC903	8-759-237-79	IC TC74HC595AF(EL)
IC904	8-759-242-28	IC TC74HC4511AF
IC905	8-759-242-28	IC TC74HC4511AF

<COIL>

REF.NO.	PART NO.	DESCRIPTION	
L901	1-412-533-21	INDUCTOR	47UH
L902	1-412-533-21	INDUCTOR	47UH
L903	1-412-533-21	INDUCTOR	47UH

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION
Q901	8-729-901-01	TRANSISTOR DTC144EK
Q902	8-729-901-01	TRANSISTOR DTC144EK
Q903	8-729-901-01	TRANSISTOR DTC144EK
Q904	8-729-901-01	TRANSISTOR DTC144EK
Q905	8-729-901-01	TRANSISTOR DTC144EK
Q906	8-729-901-01	TRANSISTOR DTC144EK
Q907	8-729-901-01	TRANSISTOR DTC144EK
Q908	8-729-901-01	TRANSISTOR DTC144EK
Q909	8-729-901-01	TRANSISTOR DTC144EK
Q910	8-729-901-01	TRANSISTOR DTC144EK
Q911	8-729-901-01	TRANSISTOR DTC144EK
Q912	8-729-901-01	TRANSISTOR DTC144EK

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION			
R901	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R902	1-216-025-00	METAL GLAZE	100	5%	1/10W
R903	1-216-025-00	METAL GLAZE	100	5%	1/10W
R904	1-216-025-00	METAL GLAZE	100	5%	1/10W
R905	1-216-025-00	METAL GLAZE	100	5%	1/10W
R906	1-216-025-00	METAL GLAZE	100	5%	1/10W
R907	1-216-025-00	METAL GLAZE	100	5%	1/10W
R908	1-216-025-00	METAL GLAZE	100	5%	1/10W
R909	1-216-025-00	METAL GLAZE	100	5%	1/10W
R910	1-216-025-00	METAL GLAZE	100	5%	1/10W
R911	1-216-025-00	METAL GLAZE	100	5%	1/10W
R912	1-216-025-00	METAL GLAZE	100	5%	1/10W
R913	1-216-025-00	METAL GLAZE	100	5%	1/10W
R914	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R915	1-216-025-00	METAL GLAZE	100	5%	1/10W
R916	1-216-025-00	METAL GLAZE	100	5%	1/10W
R917	1-216-025-00	METAL GLAZE	100	5%	1/10W

H4 **QA** **GA**

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R918	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R919	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R920	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R921	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R922	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R923	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R924	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R925	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R926	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R927	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R928	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R929	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R930	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R931	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R932	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R933	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R934	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R935	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R936	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R937	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R938	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R939	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R940	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R941	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R942	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R943	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R944	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R945	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R946	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R947	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R948	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R949	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R950	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R951	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R952	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R953	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R954	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R955	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R956	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R957	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R958	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R959	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R960	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R961	1-216-446-00	METAL OXIDE	18	5%	2W	F
R962	1-215-907-11	METAL OXIDE	22	5%	3W	F
R963	1-216-380-11	METAL OXIDE	8.2	5%	2W	F
R964	1-216-446-00	METAL OXIDE	18	5%	2W	F
R965	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R966	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R967	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R968	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R969	1-215-907-11	METAL OXIDE	22	5%	3W	F

<SWITCH>

S901	1-570-910-21	SWITCH, TACTIL (REFLOW TYPE)
S902	1-570-910-21	SWITCH, TACTIL (REFLOW TYPE)

****

1-537-698-11 QA BOARD
****

****

REF.NO.	PART NO.	DESCRIPTION		REMARK
	⚠1-413-943-11	GA BOARD (REG. SWITCH) (VPL-350Q/351Q) ************************************		
	⚠1-413-943-21	GA BOARD (REG. SWITCH) (VPL-350QM/351QM) **************************************		

Replace whole board when the parts is not specify below.

<CAPACITOR>

C1	⚠9-908-883-01	FILM	0.22MF	275V (VPL-350Q/351Q)
C1	⚠9-908-900-01	FILM	1MF	250V (VPL-350QM/351QM)
C2	⚠9-908-883-01	FILM	0.22MF	275V (VPL-350Q/351Q)
C2	⚠9-908-901-01	FILM	0.47MF	250V (VPL-350QM/351QM)
C3	⚠1-161-742-00	CERAMIC	2200PF	400V
C4	⚠1-161-742-00	CERAMIC	2200PF	400V
C5	1-161-742-00	CERAMIC	2200PF	400V
C11	9-908-885-01	ELECT	330MF	250V (VPL-350Q/351Q)
C11	9-908-902-01	ELECT	270MF	450V (VPL-350QM/351QM)
C13	1-136-159-00	FILM	0.033MF	50V
C14	9-908-892-01	ELECT	18MF	50V
C16	1-130-477-00	FILM	3300PF	50V
C20	1-136-157-00	FILM	0.022MF	50V
C21	1-161-485-00	CERAMIC	0.1MF	50V
C22	1-136-159-00	FILM	0.033MF	50V
C23	9-908-893-01	ELECT	2.2MF	50V
C25	1-130-477-00	FILM	3300PF	50V
C27	1-136-153-00	FILM	0.01MF	50V
C28	1-136-203-11	FILM	0.01MF	630V
C35	9-908-894-01	ELECT	330MF	16V (DD1 BOARD)
C40	⚠1-130-710-00	FILM	0.1MF	250V (VPL-350QM/351QM)
C50S	1-104-866-11	ELECT	330MF	25V
C51S	1-128-375-11	ELECT	120MF	25V
C52S	1-107-515-11	ELECT	680MF	10V
C53	9-908-886-01	ELECT	3900MF	10V
C53S	1-126-987-11	ELECT	220MF	10V
C54	9-908-886-01	ELECT	3900MF	10V
C55	9-908-886-01	ELECT	3900MF	10V
C59	1-136-163-00	FILM	0.068MF	50V
C60	1-128-490-11	ELECT	2200MF	10V
C62	1-104-868-11	ELECT	2200MF	25V
C64	1-107-554-11	ELECT	820MF	25V
C65	9-908-886-01	ELECT	3900MF	10V
C67	1-128-374-11	ELECT	1200MF	10V
C68	1-104-868-11	ELECT	2200MF	25V
C70	1-107-554-11	ELECT	820MF	25V
122	1-136-159-00	FILM	0.033MF	50V

<CONNECTOR>

CN1	* 1-691-291-11	CONNECTOR 5P
CN2	* 1-580-689-11	CONNECTOR 4P
CN3	1-691-960-11	CONNECTOR 3P
CN51	* 1-564-509-11	CONNECTOR 6P
CN52	* 1-564-512-11	CONNECTOR 9P
CN53	* 1-564-507-11	CONNECTOR 4P
CN54	1-564-506-11	CONNECTOR 3P

<DIODE>

D1	⚠8-719-022-99	DIODE	D6SB60L	
D10	8-719-033-12	DIODE	S3L40F	(VPL-350Q/351Q)
D10	9-908-907-01	DIODE	S3L60	(VPL-350QM/351QM)
D11	8-719-302-98	DIODE	RG4C	
D12	8-719-510-26	DIODE	D1NL20	

GA **GB**

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION	REMARK
D13	8-719-510-26	DIODE D1NL20	
D14	8-719-109-96	DIODE RD6.8ESB1 (DD1 BOARD)	
D15	8-719-911-19	DIODE 1SS119 (DD1 BOARD)	
D16	8-719-911-19	DIODE 1SS119 (DD1 BOARD)	
D50	8-719-901-18	DIODE ESAD83-004	
D50S	8-719-941-74	DIODE ERB91-02	
D51	8-719-928-19	DIODE ESAC92-02	
D51S	8-719-941-74	DIODE ERB91-02	
D52	9-998-447-01	DIODE ESAB92M-02	
D53	9-998-447-01	DIODE ESAB92M-02	
D114	8-719-911-19	DIODE 1SS119	
D116	8-719-033-12	DIODE S3L40F	

<FUSE>

REF.NO.	PART NO.	DESCRIPTION
F1	⚠1-576-108-11	FUSE 4.0A/125V (VPL-350Q/351Q)
F1	⚠1-576-231-31	FUSE 4.0A/250V (VPL-350QM/351QM)

<IC>

REF.NO.	PART NO.	DESCRIPTION
IC10	9-908-895-01	IC UC2852
IC11	9-908-136-01	IC M51977P
IC50	8-759-420-19	IC AN1431T
IC50S	8-759-144-84	IC UPC24M05HF

<COIL>

REF.NO.	PART NO.	DESCRIPTION
L1	⚠1-423-364-11	CHOKE COIL 12MMH
L2	⚠1-423-364-11	CHOKE COIL 12MMH

<PHOTO COUPLER>

REF.NO.	PART NO.	DESCRIPTION
PC10	8-749-923-50	PHOTO COUPLER PC111YS
PC11	8-749-923-50	PHOTO COUPLER PC111YS
PC12	8-749-923-50	PHOTO COUPLER PC111YS

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION
Q7	9-908-897-01	TRANSISTOR 2SC3751 (DD1 BOARD)
Q8	8-729-907-43	TRANSISTOR 2SC1740-S (DD1 BOARD)
Q10	8-729-015-58	TRANSISTOR 2SK1101
Q11	9-908-083-01	TRANSISTOR 2SK1217
Q12	8-729-140-96	TRANSISTOR 2SD774-34
Q50	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q50S	8-729-140-96	TRANSISTOR 2SD774-34
Q80	8-729-142-46	TRANSISTOR 2SC2001-LK

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION		REMARK
R1	⚠1-202-719-00	CARBON	1M	1/2W
R10	9-908-898-01	FUSIBLE	12	1/4W
R13	1-247-848-11	CARBON	5.1K	1/4W
R14	1-247-852-11	CARBON	7.5K	1/4W
R15	1-215-972-11	METAL OXIDE	47K	3W
R16	1-215-972-11	METAL OXIDE	47K	3W
R17	1-215-928-11	METAL OXIDE	68K	3W
R18	1-215-928-11	METAL OXIDE	68K	3W
R21	1-247-839-11	CARBON	2.2K	1/4W
R22	1-249-434-11	CARBON	27K	1/4W
R23	1-249-402-11	CARBON	56	1/4W
R24	1-247-868-11	CARBON	36K	1/4W
R25	1-247-883-00	CARBON	150K	1/4W
R26	1-249-413-11	CARBON	470	1/4W
R28	1-249-401-11	CARBON	47	1/4W
R29	1-249-434-11	CARBON	27K	1/4W
R30	1-249-431-11	CARBON	15K	1/4W
R31	1-247-871-11	CARBON	47K	1/4W
R32	1-247-855-11	CARBON	10K	1/4W
R35	1-217-639-00	FUSIBLE	2.2	1/4W
R40	1-247-855-11	CARBON	10K	1/4W (DD1 BOARD)
R41	1-249-416-11	CARBON	820	1/4W (VPL-350Q/351Q)
R41	1-249-420-11	CARBON	1.8K	1/4W (VPL-350QM/351QM)
R42	1-247-855-11	CARBON	10K	1/4W
R44	1-215-865-11	METAL OXIDE	220	1W
R45	1-215-865-11	METAL OXIDE	220	1W
R50S	1-249-417-11	CARBON	1K	1/4W
R52	1-249-417-11	CARBON	1K	1/4W
R53	1-249-416-11	CARBON	820	1/4W
R54	1-249-431-11	CARBON	15K	1/4W
R55	1-249-393-11	CARBON	10	1/4W
R56	1-249-422-11	CARBON	2.7K	1/4W
R57	1-247-835-11	CARBON	1.5K	1/4W
R59	1-249-417-11	CARBON	1K	1/4W
R60	1-215-890-11	METAL OXIDE	470	2W
R61	1-215-887-11	METAL OXIDE	27K	2W
R62	1-215-890-11	METAL OXIDE	470	2W
R63	1-215-887-00	METAL OXIDE	150	2W
R81	1-249-411-11	CARBON	330	1/4W
R82	1-249-417-11	CARBON	1K	1/4W
R83	1-249-417-11	CARBON	1K	1/4W
R84	1-247-807-11	CARBON	100	1/4W
R85	1-247-807-11	CARBON	100	1/4W
R86	1-247-807-11	CARBON	100	1/4W
R87	1-215-884-11	METAL OXIDE	47	2W
R88	1-215-884-11	METAL OXIDE	47	2W
R89	1-215-884-11	METAL OXIDE	47	2W
R140	1-247-879-11	CARBON	100K	1/4W
R142	1-249-440-11	CARBON	220K	1/4W
R143	1-219-153-21	FUSIBLE	10	1/4W

<RELAY>

REF.NO.	PART NO.	DESCRIPTION
RL	⚠1-515-450-00	RELAY

<TRANSFORMER>

REF.NO.	PART NO.	DESCRIPTION
T1	⚠9-908-891-01	TRANSFORMER, (TS-B10)
T4	9-908-899-01	TRANSFORMER, (TS-B12) (DD1 BOARD)

<THERMISTOR>

REF.NO.	PART NO.	DESCRIPTION
TM10	⚠1-803-316-11	THERMISTOR (VPL-350Q/351Q)
TM10	⚠1-809-260-11	THERMISTOR (VPL-350QM/351QM)

<ZENER DIODE>

REF.NO.	PART NO.	DESCRIPTION
Z10	8-719-110-50	DIODE RD18ESB3
Z11	8-719-110-45	DIODE RD16ESB2
Z50	8-719-109-86	DIODE RD5.1ESB3
Z50S	8-719-110-35	DIODE RD13ESB1

****

⚠1-413-944-11 GB BOARD (POWER, LAMP) (VPL-350Q/351Q)
INCLUDING SUB P1 BOARD
****

⚠1-413-944-21 GB BOARD (POWER, LAMP)
(VPL-350QM/351QM)
INCLUDING SUB P1 BOARD
****

⚠9-908-954-01 SUB P1 BOARD (POWER CONTROL)
****

Replace whole board when the parts is not specify below.

<ARRESTER>

REF.NO.	PART NO.	DESCRIPTION
ARR2	1-576-084-11	ARRESTER

GB

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Replace only with part number specified.

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Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION		REMARK
		<CAPACITOR>		
C1	⚠1-161-741-00	CERAMIC	0.001MF	400V
C2	⚠1-136-527-12	FILM	0.47MF	250V
C3	⚠1-161-741-00	CERAMIC	0.001MF	400V
C4	⚠1-161-741-00	CERAMIC	0.001MF	400V
C5	9-908-929-01	ELECT	680MF	200V
C6	9-908-929-01	ELECT	680MF	200V
C11	9-908-931-01	ELECT	47MF	25V
C12	9-908-932-01	ELECT	22MF	50V
C21	9-908-933-01	ELECT	100MF	25V
C22	9-908-934-01	ELECT	10MF	50V
C23	9-908-935-01	ELECT	100MF	35V
C24	9-908-933-01	ELECT	100MF	25V
C25	9-908-933-01	ELECT	100MF	25V
C26	9-908-933-01	ELECT	100MF	25V
C27	9-908-939-01	ELECT	33MF	25V
C49	9-908-929-01	ELECT	680MF	200V
C50	9-908-929-01	ELECT	680MF	200V
C53	⚠1-107-684-11	FILM	1MF	250V
C57	⚠1-161-741-00	CERAMIC	0.001MF	400V
C61	1-161-741-00	CERAMIC	0.001MF	400V
C62	1-161-741-00	CERAMIC	0.001MF	400V
C65	1-164-495-11	CERAMIC	100PF	400V
		<CONNECTOR>		
CN1	9-908-955-01	CONNECTOR 5P		
CN4	9-908-956-01	CONNECTOR 2P		
CN5	9-908-957-01	CONNECTOR 2P		
		<DIODE>		
D1	⚠8-719-500-48	DIODE S15WB60		
D2	8-719-044-70	DIODE S16L60		
D3	8-719-987-76	DIODE ERC38-05		
D4	8-719-987-76	DIODE ERC38-05		
D30	8-719-044-70	DIODE S16L60		
D31	8-719-110-22	DIODE RD11ESB2		
		<FUSE>		
F1	⚠1-532-749-11	FUSE, GLASS TUBE (8A/125V)		(VPL-350Q/351Q)
F1	⚠1-576-225-11	FUSE (H.B.C) (4A/250V)		(VPL-350QM/351QM)
		<IC>		
IC6	9-908-942-01	IC MA1040P		
		<CONNECTOR>		
J2	1-564-505-11	CONNECTOR		
J4	1-564-505-11	CONNECTOR		
		<COIL>		
L1	⚠1-421-779-11	CHOKE COIL		
L13	1-421-779-11	CHOKE COIL		
L23	⚠1-421-779-11	CHOKE COIL		
		<TRANSISTOR>		
Q1	9-908-943-01	TRANSISTOR 2SK1726		
Q2	9-908-944-01	TRANSISTOR 2SK1411		
Q3	9-908-944-01	TRANSISTOR 2SK1411		
Q4	9-908-944-01	TRANSISTOR 2SK1411		
Q5	9-908-944-01	TRANSISTOR 2SK1411		
Q8	9-908-948-01	TRANSISTOR 2SK1723		
Q12	8-729-201-48	TRANSISTOR 2SA1012-O		
Q14	8-729-195-82	TRANSISTOR 2SC2958		
		<RESISTOR>		
R1	⚠9-908-949-01	FUSIBLE	10	1.6W
R10	1-215-890-00	METAL OXIDE	4.7K	2W
R11	1-215-903-11	METAL OXIDE	68K	2W
R16	⚠9-908-949-01	FUSIBLE	10	1.6W
R27	1-215-899-11	METAL OXIDE	15K	2W
R43	1-215-881-11	METAL OXIDE	15	2W
R44	9-908-951-01	METAL OXIDE	15	3W
R50	1-249-415-11	CARBON	680	1/4W
R51	1-215-867-00	METAL OXIDE	470	1W
R52	1-249-417-11	CARBON	1K	1/4W
R53	1-249-425-11	CARBON	4.7K	1/4W
R54	1-249-420-11	CARBON	1.8K	1/4W
R55	1-249-420-11	CARBON	1.8K	1/4W
R56	1-249-420-11	CARBON	1.8K	1/4W
R76	1-260-333-51	CARBON	47K	1W
R79	1-215-896-00	METAL OXIDE	4.7K	2W
R80	1-260-308-11	CARBON	22	1/2W
R83	1-247-727-11	CARBON	10	1/2W
R84	1-247-760-11	CARBON	4.7K	1/4W
R103	1-260-355-71	CARBON	180K	1W
R104	1-247-760-11	CARBON	4.7K	1/2W
R105	1-247-727-11	CARBON	10	1/2W
R106	1-249-425-11	CARBON	4.7K	1/4W
R109	1-249-433-11	CARBON	22K	1/4W
R110	1-215-899-11	METAL OXIDE	15K	2W
R112	1-215-874-11	METAL OXIDE	6.8K	1W
R113	1-249-441-11	CARBON	82K	1/4W
R116	1-215-882-00	METAL OXIDE	22	2W
R117	1-215-896-00	METAL OXIDE	4.7K	2W
R118	1-215-896-00	METAL OXIDE	4.7K	2W
		<RELAY>		
RY1	⚠9-908-952-01	RELAY		
		<TRANSFORMER>		
T3	9-908-953-01	TRANSFORMER		
		<THERMAL REED>		
TH1	1-570-258-71	SWITCH, THERMAL REED		

****

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REF.NO.	PART NO.	DESCRIPTION	REMARK
		MISCELLANEOUS	
	1-467-555-14	PROJECTION UNIT	
	1-500-153-11	BEAD, FERRITE	
	1-503-255-00	SPEAKER	
	⚠ 1-517-311-11	LAMP UNIT, METAL HALIDE (250W)	
	⚠ 1-526-954-11	INLET, AC	
	1-533-423-11	HOLDER, FUSE	
	1-533-424-11	THERMOSTAT	
	1-537-698-11	TERMINAL BOARD ASSY, I/O (QA BOARD)	
	1-543-993-11	CORE, FERRITE	
	⚠ 1-572-067-11	SWITCH, PUSH (1 KEY)(AC POEWR) (VPL-350Q/351Q)	
	⚠ 1-572-067-21	SWITCH, PUSH (1 KEY)(AC POEWR) (VPL-350QM/351QM)	
	⚠ 1-576-048-11	FUSE, GLASS TUBE (10.0A/125V) (VPL-350Q/351Q)	
	⚠ 1-576-233-11	FUSE (H.B.C) (6.3A/250V) (VPL-350QM/351QM)	
	1-698-341-11	FAN, DC	
	1-698-342-11	FAN, DC	
	1-698-365-11	FAN, DC	
	1-769-159-11	FFC (WITH SHIELD)	
	1-769-159-21	FFC (WITH SHIELD)	
	1-769-159-31	FFC (WITH SHIELD)	
	1-769-160-11	FFC (WITH SHIELD)	
	1-769-160-21	FFC (WITH SHIELD)	
	1-769-160-31	FFC (WITH SHIELD)	
		ACCESSORIES AND PACKING MATERIALS	
	⚠ 1-559-303-11	CODE, POWER (10.0A/125V)(VPL-350Q/351Q)	
	⚠ 1-575-175-11	CODE SET, POWER (10.0A/250V) (VPL-350QM/351QM)	
	1-765-144-11	CORD, CONNECTION	
	*3-704-310-01	BAG (STANDARD), PROTECTION	
	3-758-217-21	MANUAL, INSTRUCTION (VPL-350Q/350QM) (ENGLISH,FRENCH)	
	3-758-217-41	MANUAL, INSTRUCTION (VPL-350QM)(GERMAN)	
	3-798-146-21	MANUAL, INSTRUCTION (VPL-351Q/351QM) (ENGLISH,FRENCH)	
	3-798-146-51	MANUAL, INSTRUCTION (VPL-351Q/351QM) (SPANISH, ITALIAN)	
	3-798-146-41	MANUAL, INSTRUCTION (VPL-351Q/351QM) (GERMAN)	
	*4-043-881-01	CUSHION (UPPER) (ASSY)(VPL-350Q/350QM)	
	*4-043-882-01	CUSHION (LOWER) (ASSY)(VPL-350Q/350QM)	
	*4-044-077-01	INDIVIDUAL CARTON (VPL-350Q)	
	*4-044-079-01	INDIVIDUAL CARTON (VPL-350QM)	
	*4-048-034-01	CUSHION (UPPER) (ASSY)(VPL-351Q/351QM)	
	*4-048-035-01	CUSHION (LOWER) (ASSY)(VPL-351Q/351QM)	
	*4-048-050-01	INDIVIDUAL CARTON (VPL-351QM)	
	*4-048-051-01	INDIVIDUAL CARTON (VPL-351Q)	
		REMOTE COMMANDER	
	7-585-11	REMOTE COMMANDER (RM-PJ350)	
	5-502-01	COVER (A)	
	5-503-71	COVER (B)	
	5-504-01	COVER, BATTERY	